TC-W370/W411/WR511/WR570

SERVICE MANUAL

US Model TC-W370/W411/WR511/WR570

Canadian Model AEP Model UK Model E Model



Photo: TC-WR570

SPECIFICATIONS

Recording system

4-track 2-channel stereo

Fast winding time

Approx. 90 sec. (with Sony C-60 cassette)

AC bias

Signal-to-noise ratio (at peak level)

Dolby NR switch Cassette	OFF	B-Type ON	C-Type ON
Type IV (Sony METAL-SLT/S)	58 dB	66 dB	73 dB
Type II (Sony UX-S)	57 dB	65 dB	72 dB
Type I (Sony HF-S)	55 dB	63 dB	70 dB

Total harmonic distortion 1.0% (with Sony METAL-SLT/S cassettes) Frequency response (DOLBY NR OFF)

Type IV cassette (Sony METAL-SLT/S)	30 - 15,000 Hz (±3 dB, IEC) 30 - 13,000 Hz [±3 dB 0VU (-4 dB) recording]
Type II cassette (Sony UX-S)	30 - 15,000 Hz (±3 dB, IEC)
Type I cassette (Sony HF-S)	30 - 14,000 Hz (±3 dB, IEC)

Wow and flutter

±0.14% W. Peak (IEC) 0.08% WRMS (NAB) ±0.19% W. Peak (DIN)

	inputs		
	Line inputs	Sensitivity	77.5 mV
i	(phono jacks)	Input impedance	47 k ohms

Outputs

Line outputs (phono jacks)	Rated output level	0.32 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0.3 mW at a load impedance of 32 ohms



Model Name Using Similar Mechanism			TC-W320/W320S /WR520/WR520S
	DECK A	TCM-190VA12	
Tape Transport Mechanism Type	/W411	DECK B	TCM-190VB12
	TC-WR511	DECK A	TCM-190RA12
		DECK B	TCM-190RB22
	TC-WR570	DECK A	TCM-190RA12
		DECK B	TCM-190RB12

General

Power requirements

US, Canadian model: 120V AC, 60Hz AEP, Germany model: 220V AC, 50/60Hz UK model: 240V AC, 50/60Hz

E model: 120, 220, 240V AC adjustable, 50/60Hz

Power consumption Dimensions

Approx. $430 \times 125 \times 285$ mm (w/h/d)

 $(17 \times 5 \times 11^{1/4} \text{ inches})$

including projecting parts and controls

Weight Approx. 4.5 kg (9 lbs 15 oz)

Supplied accessory

Audio connecting cords (2)

Design and specifications subject to change without notice.

This appliance conforms with EEC Directive 87/308/EEC regarding interference suppression.

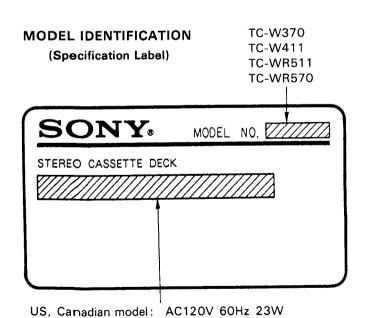
Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol $\Box\Box$ are trademarks of Dolby Laboratories Licensing Corporation.



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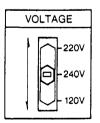
UK model: AC240V ~50/60Hz

Operating voltage (E model)

Operate the unit on either 120, 220 or 240 V AC, 50/60 Hz. Before connecting the unit to the power source, check that the operating voltage of your unit is the same as the local power line voltage.

The voltage selector is located on the rear panel. If the selector must be reset, disconnect the AC power cord and set the selector to the appropriate voltage.

VOLTAGE Selector



SAFETY CHECK-OUT

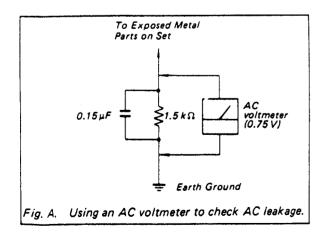
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK A ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

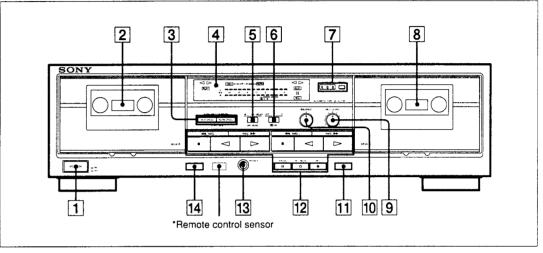
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

GENERAL

SECTION 1

This section is extracted from instruction manual.

Identification of Front Panel Parts



For details, refer to the page number indicated in •

- 1 POWER switch
- 2 Deck A
- 3 SYNCHRO DUBBING buttons ® HIGH SPEED button NORM (normal) SPEED button
- 4 Display panel
- 5 DIR (direction) MODE switch (TC-WR570/WR511 only) • •
- 6 DD NR (Dolby noise reduction) switch @ @
- 7 Tape COUNTER and RESET button
- 8 Deck B
- 9 REC (recording) LEVEL control @
- 10 BALANCE control 10

- 12 Tape operation buttons
 - (stop) button

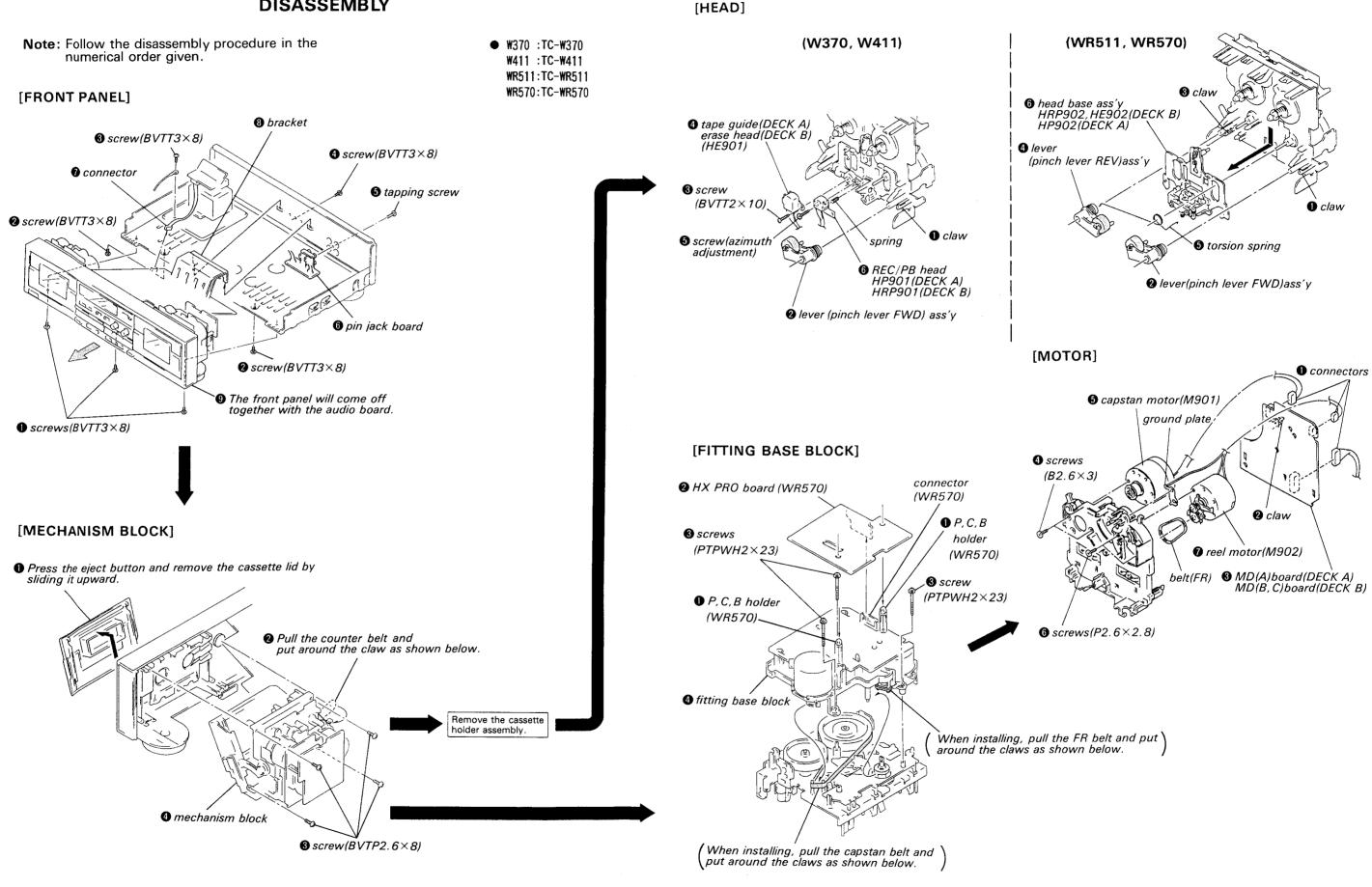
 (AMS**) (leftward fast winding) button
 - ✓ (reverse play) button (TC-WR570/WR511 only)
- (forward play) button
- ►► (AMS**) (rightward fast winding) button
- PAUSE button (deck B only)
- O REC MUTE (record muting) button (deck B only) @
- REC (recording) button (deck B only)
- 13 PHONES (headphones) jack (stereo phone jack)

*Remote control sensor

- You can remotely control this cassette deck with:
- A remote commander that came with a Sony amplifier or receiver if it has the mark and cassette deck control capability.
- Any optional Sony remote commander with the mark and cassette deck control capability.

^{**}AMS is an abbreviation for Automatic Music Sensor.

SECTION 2 DISASSEMBLY



SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcoholmoistened swab:

> record/playback head erase head

pinch roller rubber belts

capstan

idler 2. Demagnetize the record/playback head with a head

- demagnetizer. 3. Do not use a magnetized screwdriver for the adjustments
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed in the rated power supply voltage unless otherwise noted.

Torque Measurement

Torque	Torque meter	Meter reading
FWD	C Q-102C	30 to 65g · cm (0.42 to 0.9 oz · inch)
FWD Back tension	C Q -102C	DECK A : 1 to 6g · cm (0.014 to 0.08 oz · inch) DECK B : 2 to 9g · cm (0.03 to 0.12 oz · inch)
R E V (TC-WR511/WR570)	C Q-102R C	30 to 65g · cm (0.42 to 0.9 oz · inch)
REV Back tension (TC-WR511/WR570)	C Q-102R C	1 to 6g · cm (0.014 to 0.08 oz · inch)
FF. REW	C Q-201 B	70 to 120g·cm (0.98 to 1.67 oz·inch)

3-2. ELECTRICAL ADJUSTMENT

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustment about playback should be performed before adjustment about recording. The adjustments should be performed for both L-CH and R-CH.

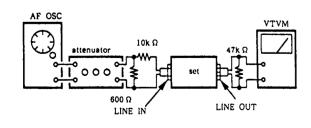
• Switches and controls should be set as follows unless otherwise specified.

DD NR switch: OFF DIR MODE switch :

• Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

- Record Mode -



Standard Input Level

input terminal	LINE IN
source impedance	10kΩ
input level	0.25V (-10dB)

Standard Output Level

output terminal	LINE OUT
load impedance	47kΩ
output level	0.44V (-5dB)

Test tape

Туре	Signal	Used for
P-4-A100	10kHz, -10dB	Azimuth Adjustment
P-4-L300	315Hz, 0dB	PB Level Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment

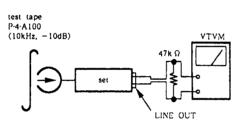
0dB=0.775V

Record/Playback Head Azimuth Adjustment

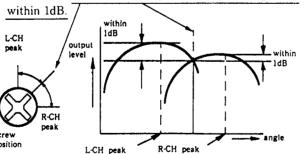
DECK A DECK B

Procedure:

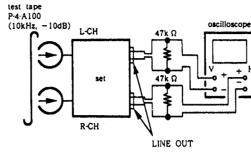
1. Mode: FWD playback

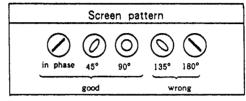


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together



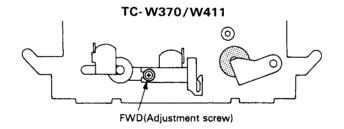
3. Phase Check Mode: playback

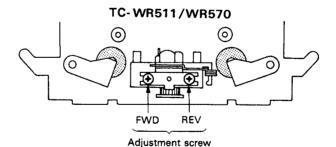




- 4. Set in the REV mode and repeat the step 1-3. (TC-WR511/WR570)
- 5. After the adjustment, lock the screws with locking compound.

Adjustment Location: Record/playback head

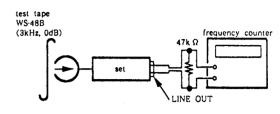




Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: playback



Perform high speed adjustment before normal speed adjustment.

(high speed adjustment)

- 1. Short test pin CN805 on audio board and turn POWER switch on.
- 2. Set to FWD playback mode.
- 3. Keep on pressing the HIGH SPEED DUBBING switch.
- 4. Adjust RV72 so that the frequency counter reading becomes 6.000 ± 20 Hz.
- 5. After adjustment, disconnect CN805 shorted in step 1.

(normal speed adjustment)

- 1. Set to FWD playback mode.
- 2. Adjust RV71 so that the frequency counter reading becomes 3,000 ± 10 Hz.

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location:

MD-A, MD-B, MD-C board

Playback I

DECK A

Procedure:

Mode: pla

test tape P-4-L300 (315Hz, 0

Adjust RV11 reading on V

Adjustment

LINE OU Level dif Check that t playback mod

Adjustment

to stop severa

Bias Cons

This adjustm assy or the DOLBY HX

Procedure:): R-CH

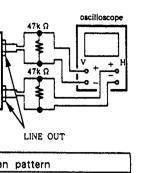
LINE IN no signal

1. Connect

2. Set RV4

3. Set to F 4. Adjust T

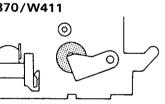
becomes Adjustment



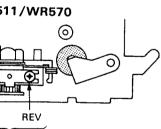
d repeat the step 1-3.

ock the screws with locking

ecord/playback head



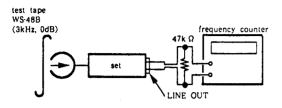
ustment screw)



Tape Speed Adjustment DECK A DECK B

Procedure:

Mode: playback



Perform high speed adjustment before normal speed adjustment.

(high speed adjustment)

- 1. Short test pin CN805 on audio board and turn POWER switch on.
- 2. Set to FWD playback mode.
- 3. Keep on pressing the HIGH SPEED DUBBING switch.
- 4. Adjust RV72 so that the frequency counter reading becomes $6,000\pm20$ Hz.
- 5. After adjustment, disconnect CN805 shorted in step 1.

(normal speed adjustment)

- 1. Set to FWD playback mode.
- 2. Adjust RV71 so that the frequency counter reading becomes $3,000 \pm 10$ Hz.

Frequency difference between the beginning and the end of the tape should be within 3%.

Frequency difference between deck A and deck B the beginning of the tape should be within 1.5%.

Adjustment Location:

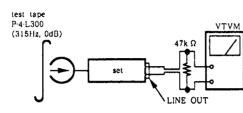
MD-A, MD-B, MD-C board

Playback Level Adjustment

DECK A DECK B

Procedure:

Mode: playback



Adjust RV11 (L-CH), RV21 (R-CH) so that the reading on VTVM meets the adjustment limits below.

Adjustment Limits:

LINE OUT level: -5 ± 0.5 dB (0.42-0.46V)

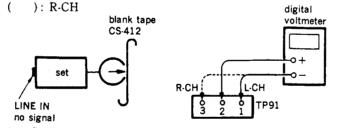
Level difference between channels: less than 0.5dB Check that the LINE OUT level does not change in playback mode while changing the mode from playback to stop several times.

Adjustment Location: MD-A, MD-B, MD-C board

Bias Consumption Current Adjustment DECK B

This adjustment should be performed when replacing the head assy or the bias oscillating transformer (T51, T71), or DOLBY HX PRO IC (IC91). (TC-WR570)

Procedure:



- 1. Connect the digital voltmeter to test point TP91.
- 2. Set RV42 (RV62) to mechanical center.
- 3. Set to FWD record mode.
- Adjust T51 (T71) so that the digital voltmeter reading becomes minimum.

Adjustment Location: HX PRO board

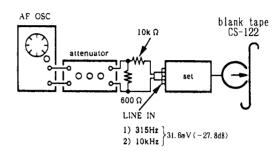
Record Bias Adjustment DECK B

Setting:

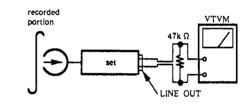
REC LEVEL control: Standard Record (See page 7.)

Procedure:

1. Mode: record



2. Mode: playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location: MD-B board

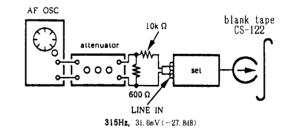
Record Level Adjustment DECK B

Setting:

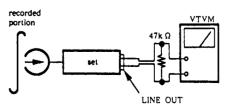
REC LEVEL control: Standard Record (See page 7.)

Procedure:

Mode: record



2. Mode: playback



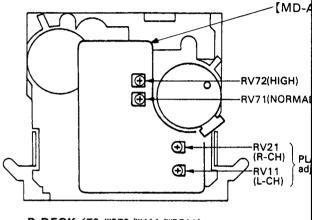
 Playback the signal recorded in step 1.
 Confirm that the signal level is within the adjustm limits below. If necessary, adjust RV101 (L-CH), 201 (R-CH) and repeat the step1-2.

Adjustment Limits: -27.8±0.5dB(29 to 33.4 mV)

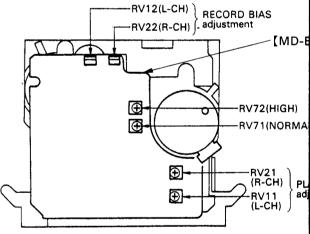
Adjustment Location: audio board (component side

-Adjustment Parts Location Diagrams-

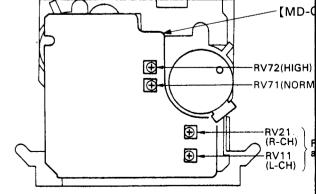
A DECK



B DECK (TC-W370/W411/WR511)



B DECK (TC-WR570)



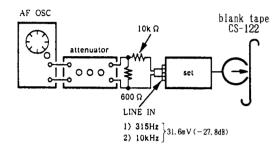
Record Bias Adjustment DECK B

Setting:

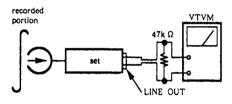
REC LEVEL control: Standard Record (See page 7.)

Procedure:

1. Mode: record



2. Mode: playback



Playback the signal recorded in step 1. Confirm that the 10kHz playback output is $0\pm0.5dB$ relative to the 315Hz output. If necessary, adjust RV12 (L-CH), RV22 (R-CH) and repeat the steps given above.

Adjustment Location: MD-B board

Record Level Adjustment DECK B

Setting:

ECK B

71), or

ligital

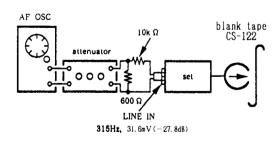
eading

-9-

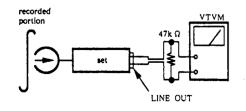
REC LEVEL control: Standard Record (See page 7.)

Procedure:

1. Mode: record



2. Mode: playback



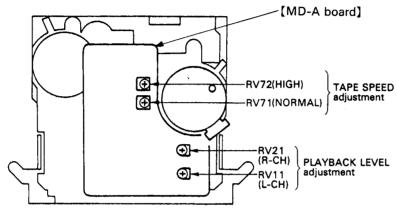
 Playback the signal recorded in step 1.
 Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV101 (L-CH), RV 201 (R-CH) and repeat the step1-2.

Adjustment Limits: -27.8±0.5dB(29 to 33.4 mV)

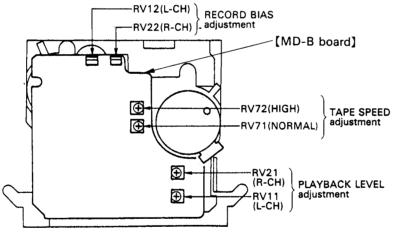
Adjustment Location: audio board (component side)

-Adjustment Parts Location Diagrams-

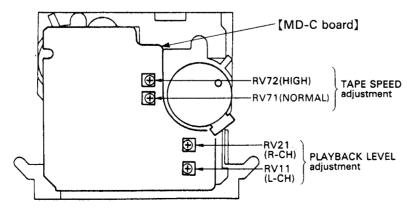
A DECK



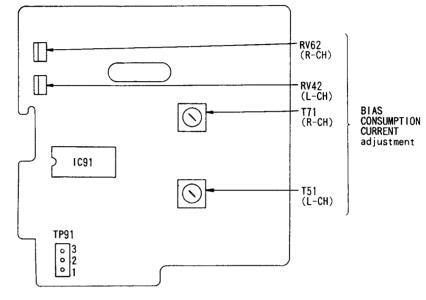
B DECK (TC-W370/W411/WR511)



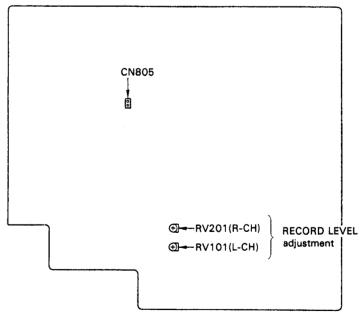
B DECK (TC-WR570)



HX PRO BOARD (COMPONENT SIDE) (TC-WR570)

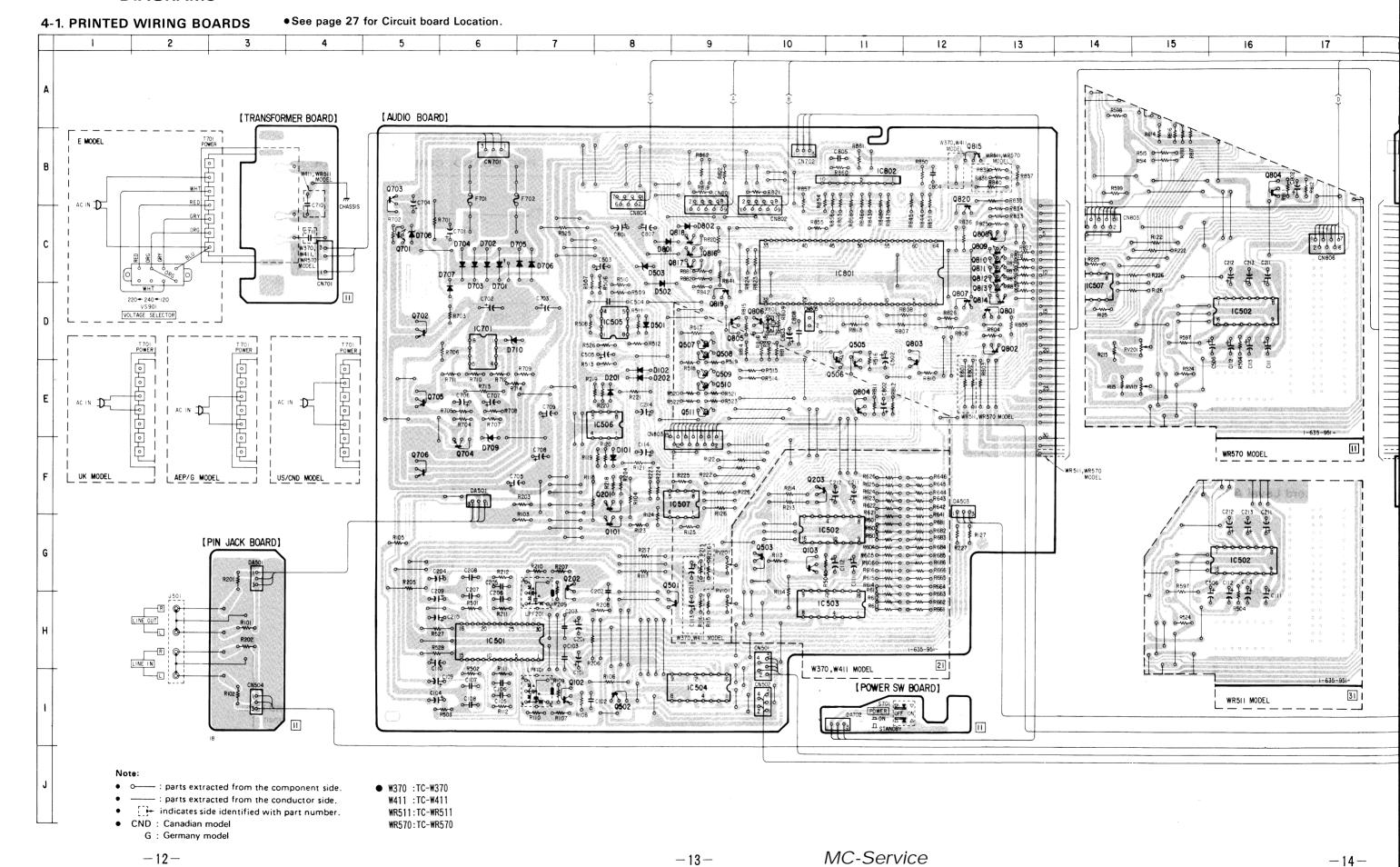


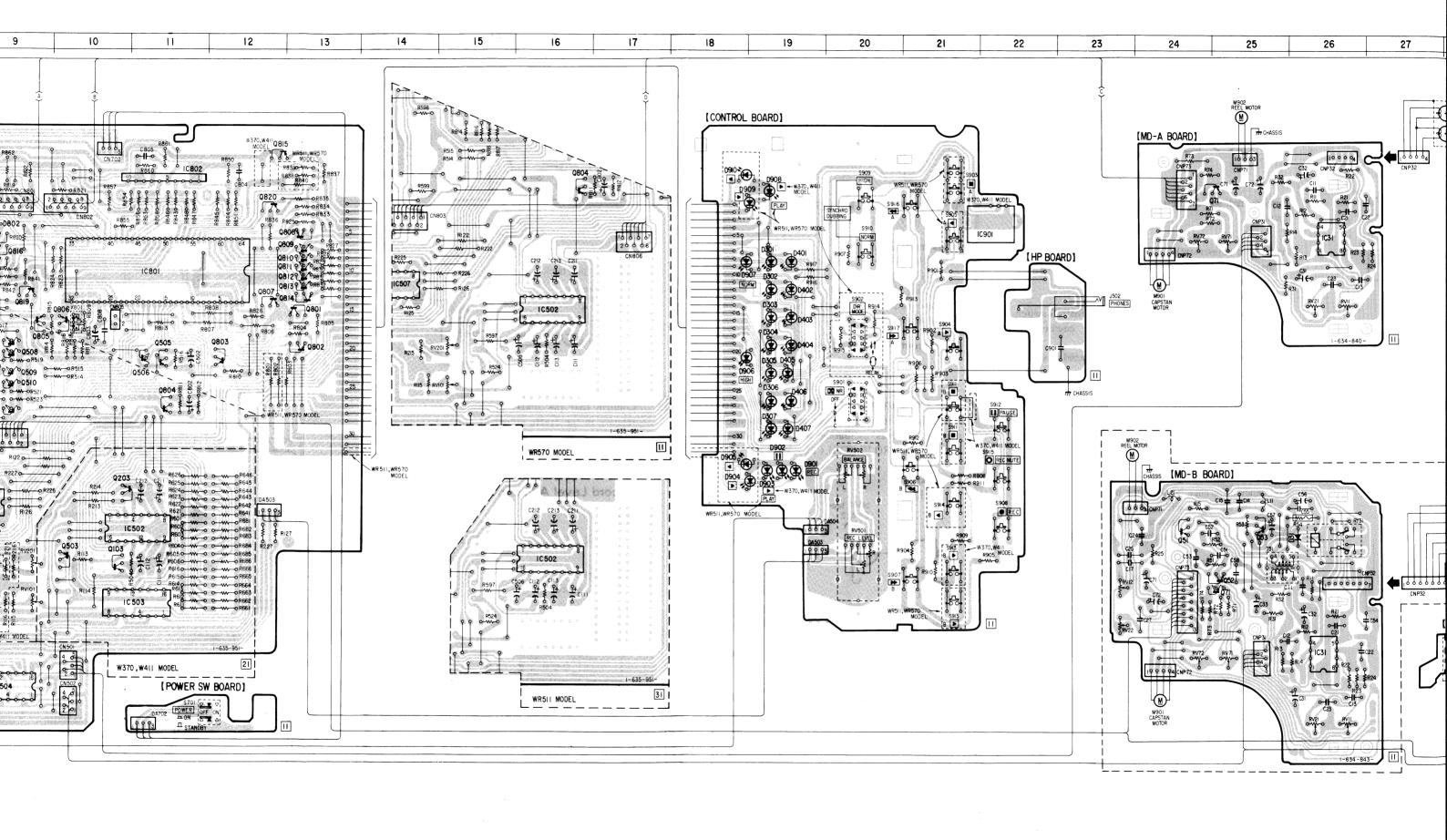
AUDIO BOARD (COMPONENT SIDE)



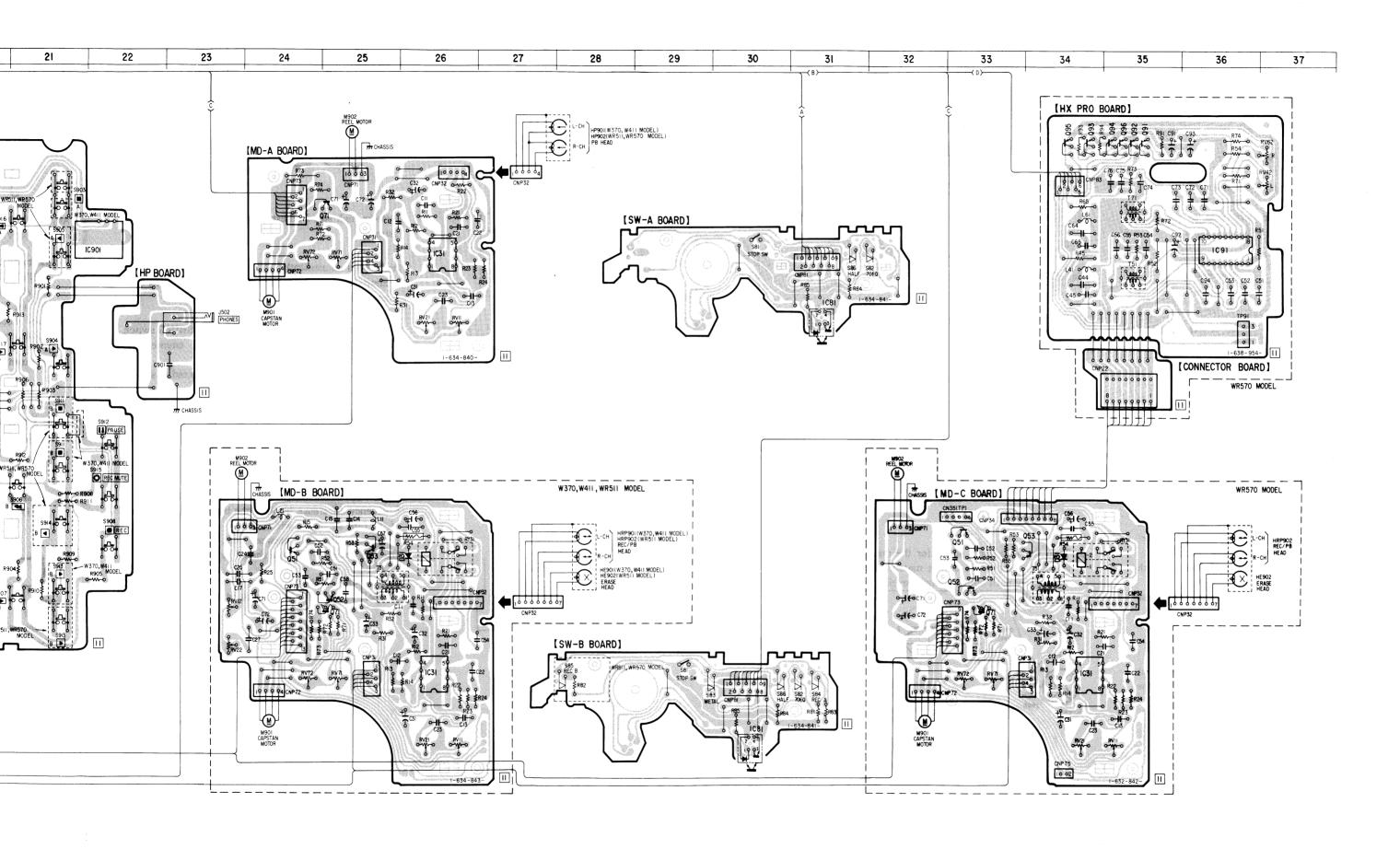
-10-

SECTION 4 DIAGRAMS



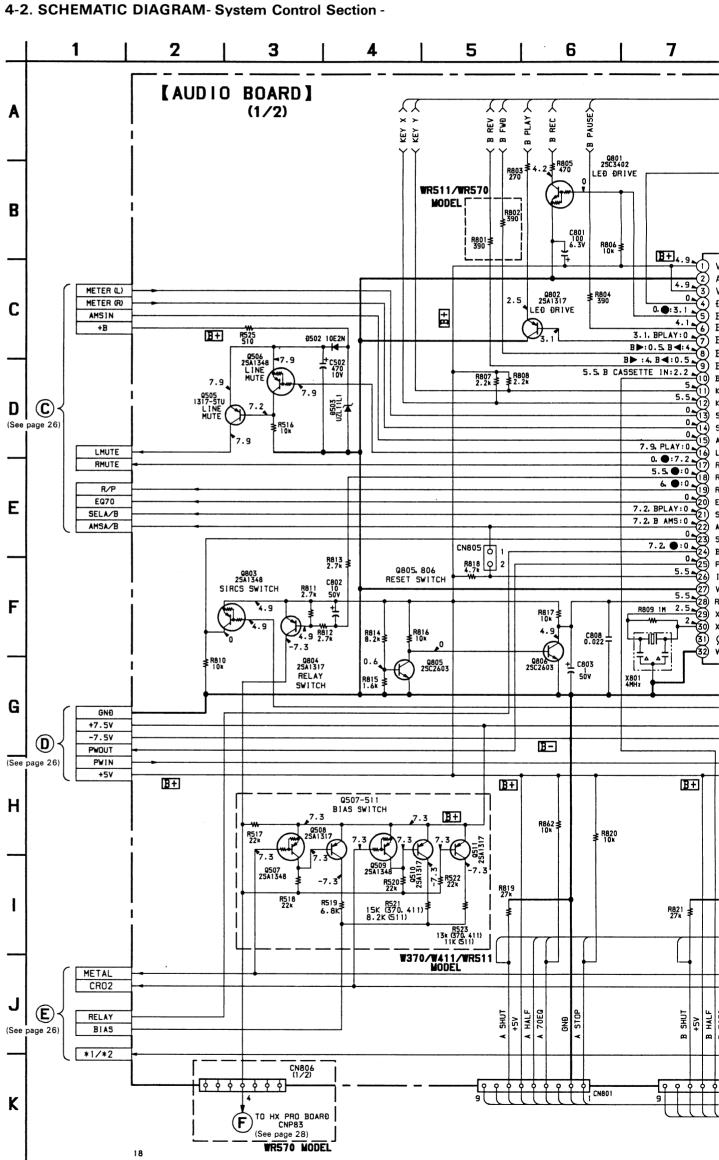


-14-



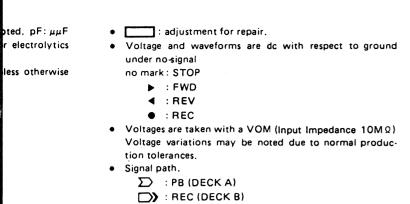
Note:

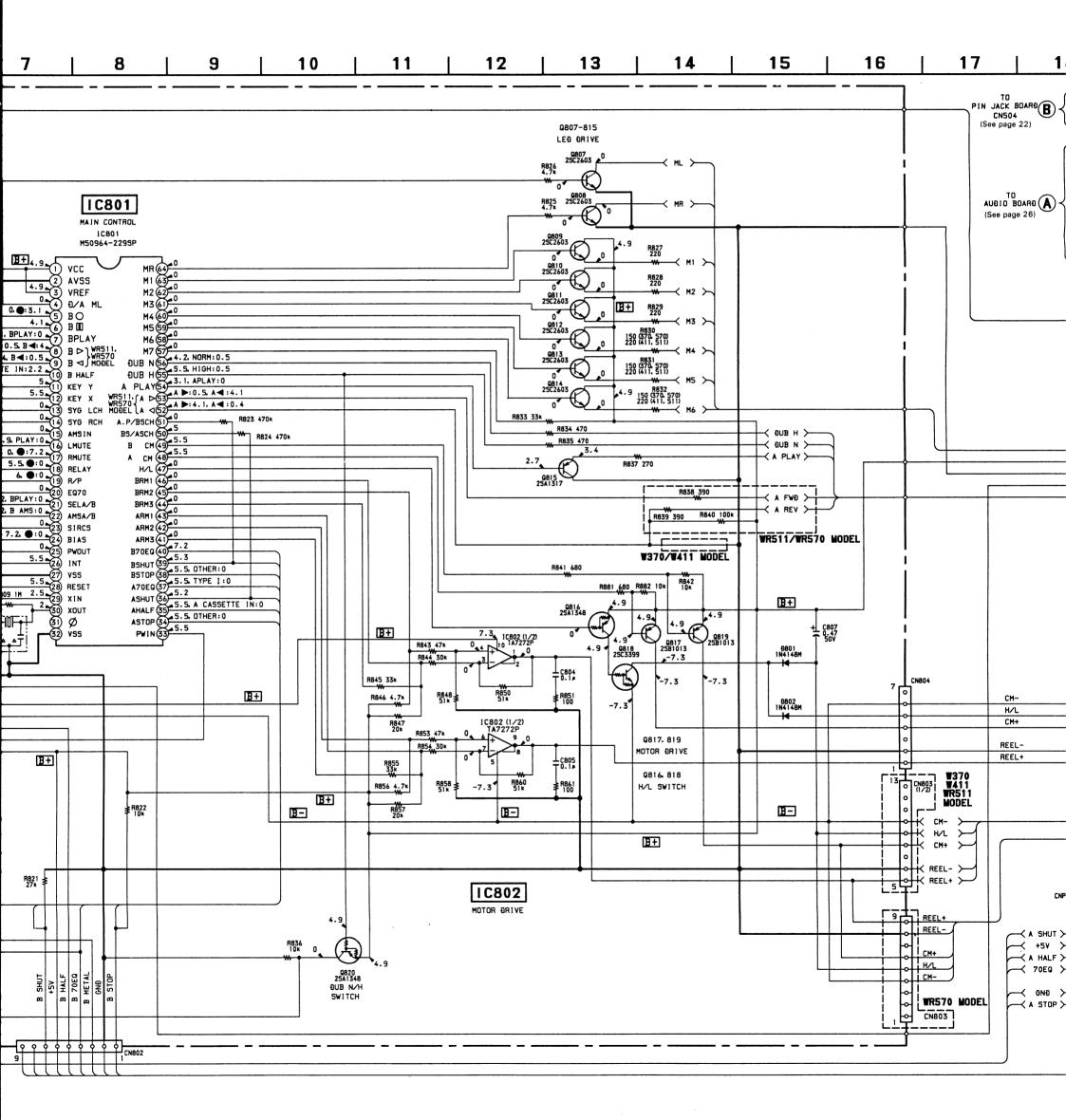
- All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\,W$ or less unless otherwise specified.
- % : indicates tolerance.
- \triangle : internal component.

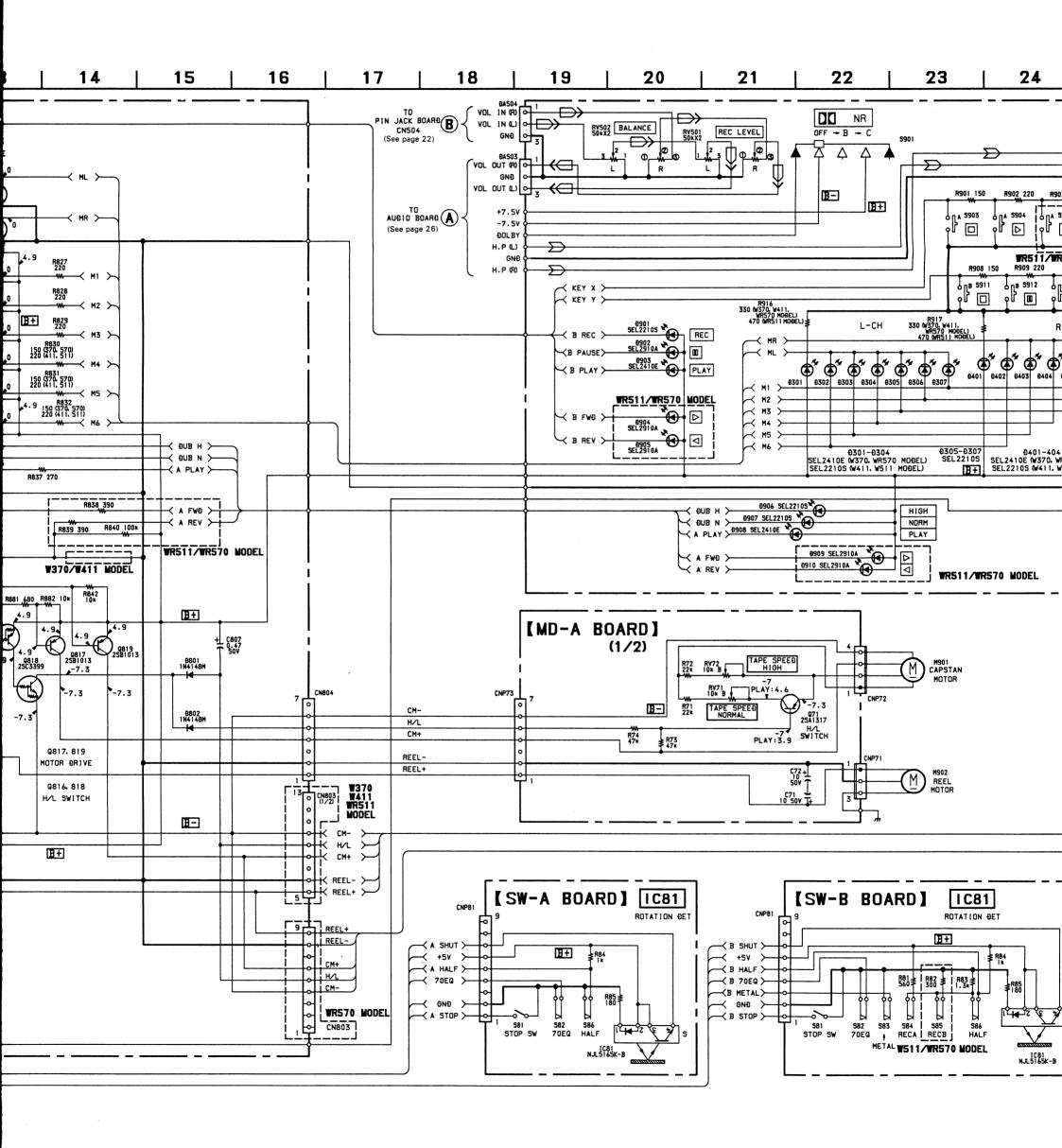


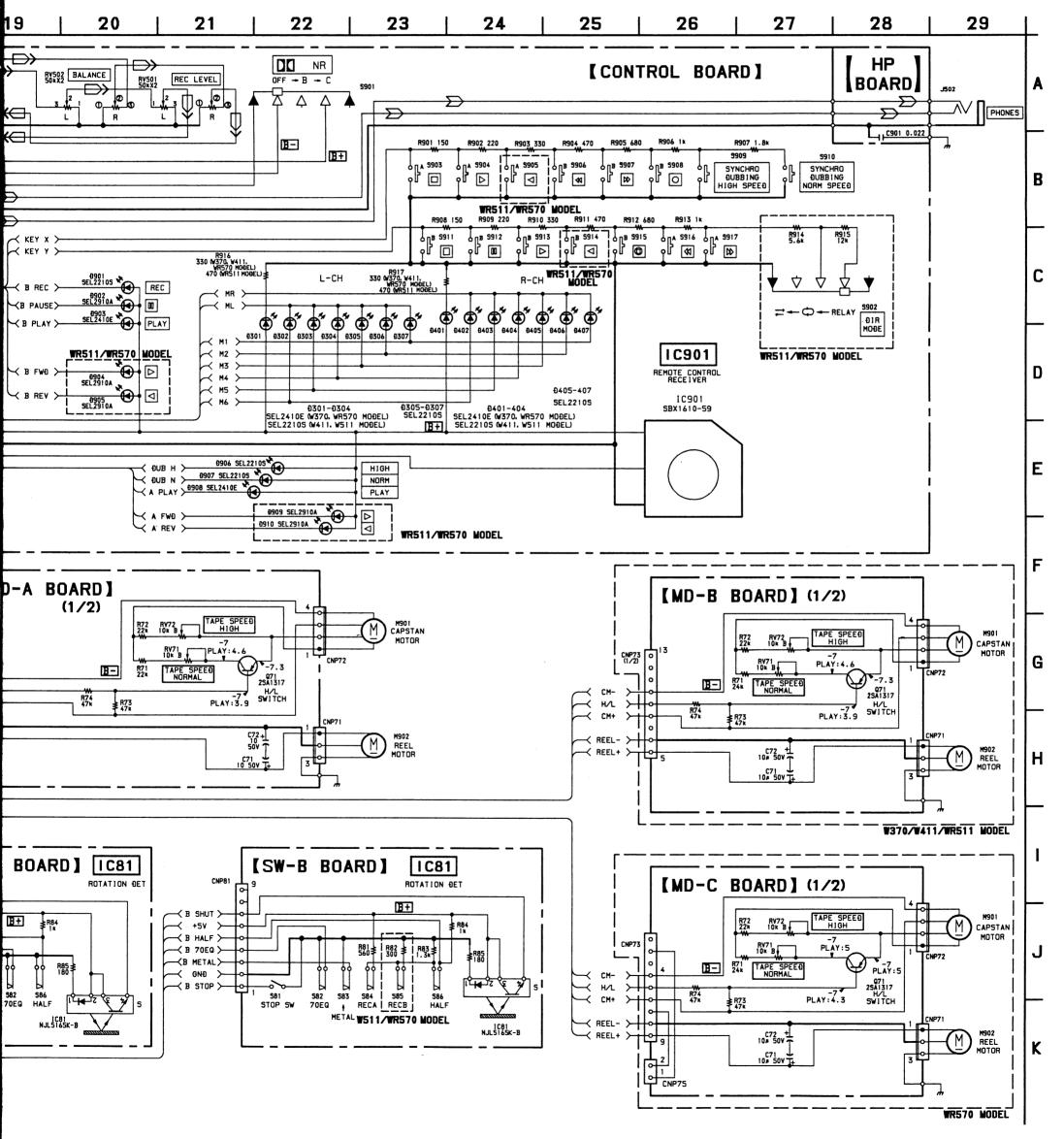
 Semiconductor Locations 	• (): board

Ref. No.	Location	Ref. No.	Location
D31(MD-B) D31(MD-C) D101	G-25 G-34 F-8	IC802 IC901	B-11 C-22
D102 D201 D202 D301 D302 D303 D304 D305 D306 D307 D401 D402 D403 D404 D405 D406 D407 D501 D502 D503 D701 D702 D703 D704 D705 D706 D707 D708 D709 D710 D801 D802 D901 D802 D903 D701 D801 D802 D901 D902 D903 D904 D905 D906 D907 D908 D909 D910 IC31(MD-A) IC31(MD-B) IC31(MD-C) IC81(SW-A) IC81(SW-B) IC91 IC501 IC502 IC503 IC504 IC505 IC506 IC507 IC701 IC801	E-8 -8 -8 -9 9 9 9 9 9 9 9 9 9 9 9 8 8 8 9 9 9 9	Q51(MD-B) Q51(MD-C) Q52(MD-C) Q52(MD-C) Q53(MD-C) Q73(MD-B) Q71(MD-A) Q71(MD-B) Q71(MD-C) Q91 Q92 Q93 Q94 Q95 Q96 Q101 Q102 Q103 Q201 Q202 Q203 Q501 Q502 Q503 Q501 Q502 Q503 Q501 Q706 Q501 Q702 Q703 Q701 Q702 Q703 Q704 Q705 Q706 Q801 Q801 Q802 Q803 Q804 Q805 Q806 Q801 Q801 Q801 Q802 Q803 Q804 Q805 Q801 Q801 Q802 Q803 Q804 Q805 Q801 Q801 Q802 Q803 Q804 Q805 Q801 Q801 Q802 Q803 Q804 Q805 Q806 Q801 Q801 Q802 Q803 Q804 Q805 Q806 Q801 Q801 Q802 Q803 Q804 Q805 Q806 Q801 Q801 Q802 Q803 Q804 Q805 Q806 Q801 Q801 Q801 Q802 Q803 Q804 Q805 Q801 Q801 Q802 Q803 Q804 Q805 Q801 Q801 Q802 Q803 Q804 Q805 Q806 Q801 Q801 Q801 Q801 Q801 Q801 Q801 Q801	G-24 F-33 F-23 G-24 F-23 G-24 F-23 G-23 G-24 G-33 F-25 G-33 F-26 G-33 F-35 F-35 F-10 F-10 F-11 F-11 F-11 F-11 F-11 F-11









MC-Service

Note:

- All capacitors are in µF unless otherwise noted, pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- \bullet All resistors are in Ω and $1/\!\!/_4\,W$ or less unless otherwise specified.
- % : indicates tolerance.

Note:
The components identified by mark \(\hat{\Lambda}\) or dotted line with mark \(\hat{\Lambda}\) are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque \(\hat{\Lambda}\) sont critiques pour la sécurité.

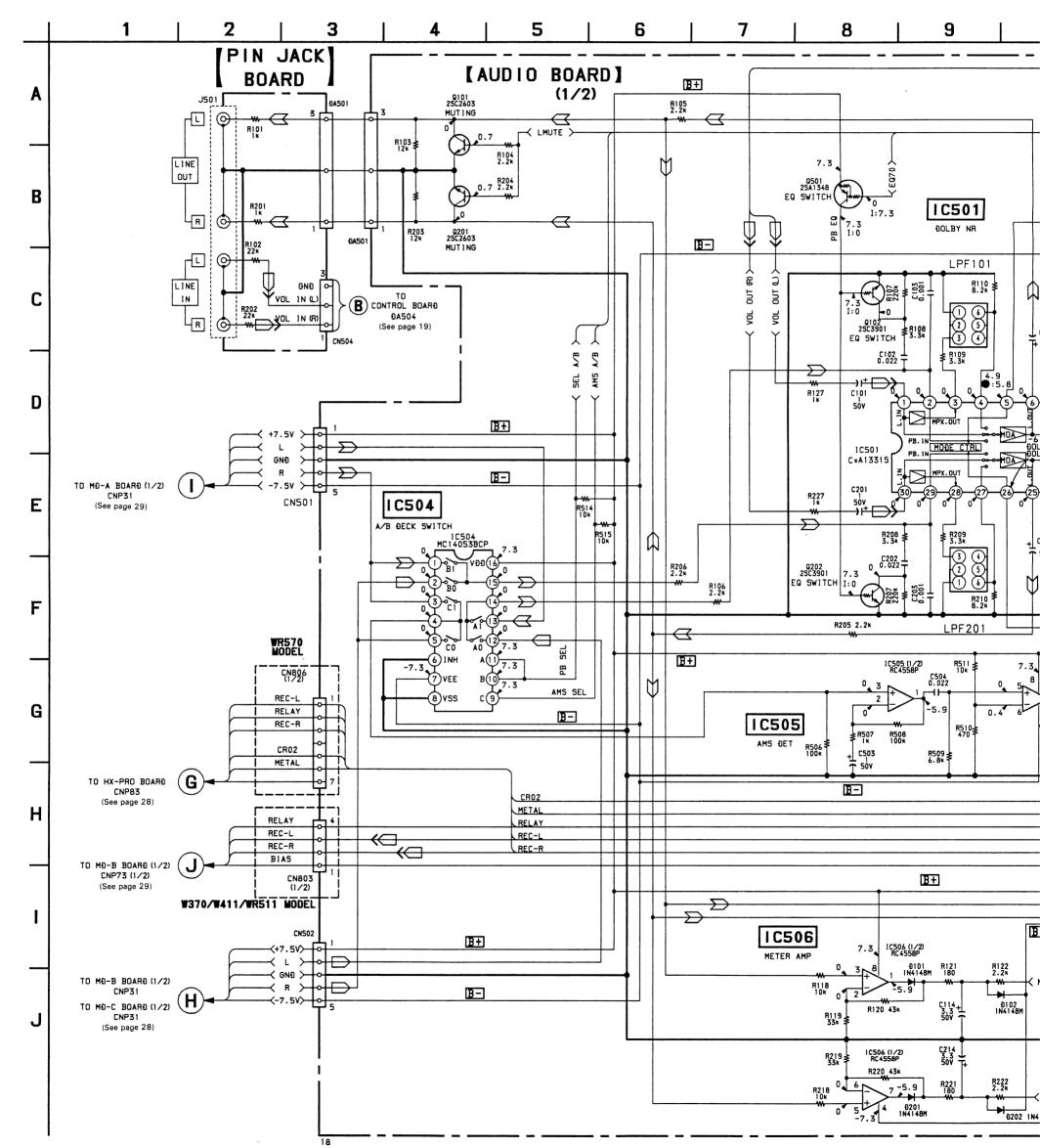
Ne les remplacer que par une pièce portant le numéro spécifié.

- adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal no mark: STOP
 - : REC
- Voltages are taken with a VOM (Input Impedance 10MΩ)
 Voltage variations may be noted due to normal production tolerances.
- Signal path.

- PB (DECK B)

 : REC (DECK B)
- CND : Canadian model
 G : Germany model

4-3. SCHEMATIC DIAGRAM - Audio Section -



: adjustment for repair.

Voltage and waveforms are dc with respect to ground under no-signal

no mark: STOP

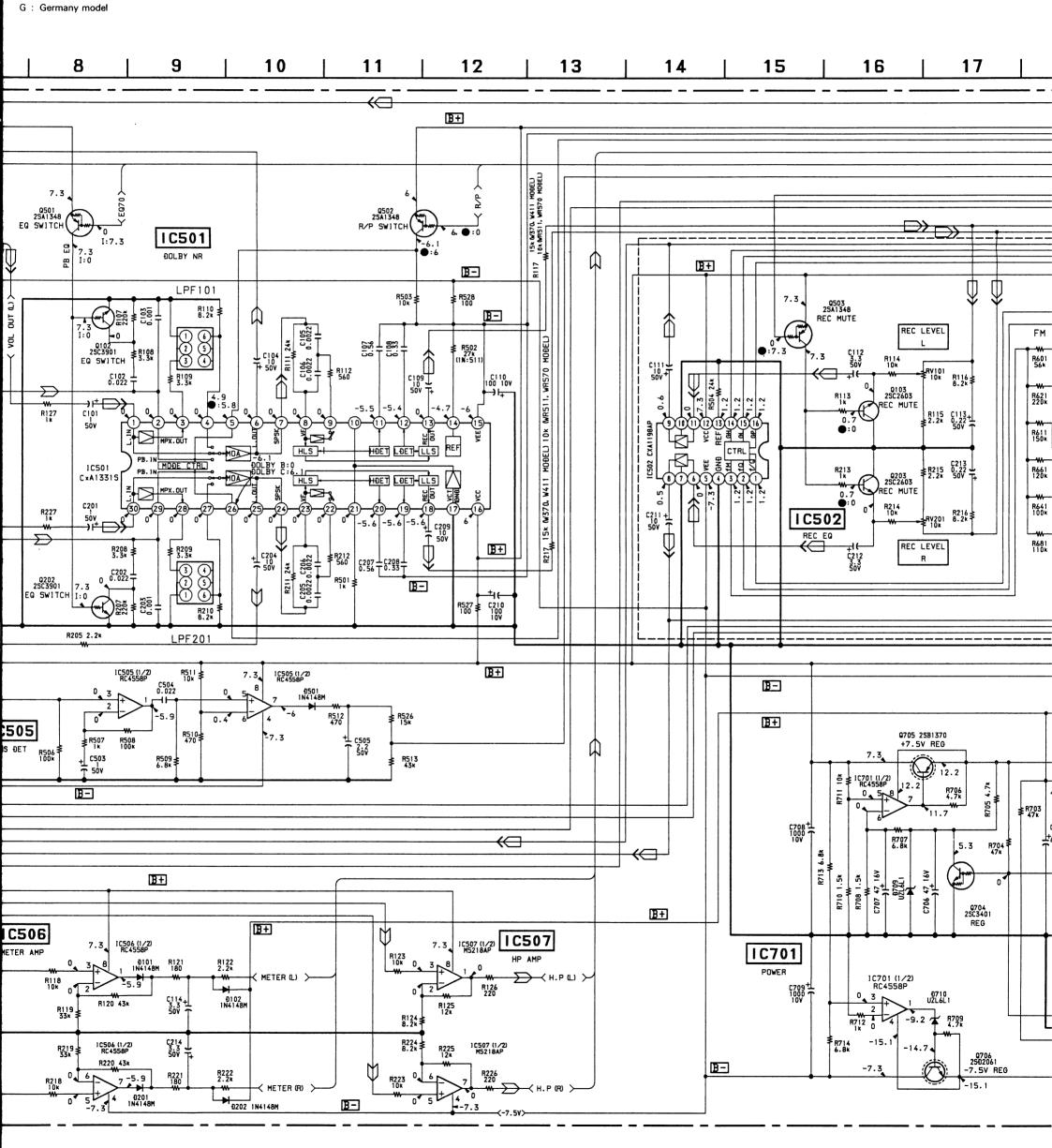
• : REC

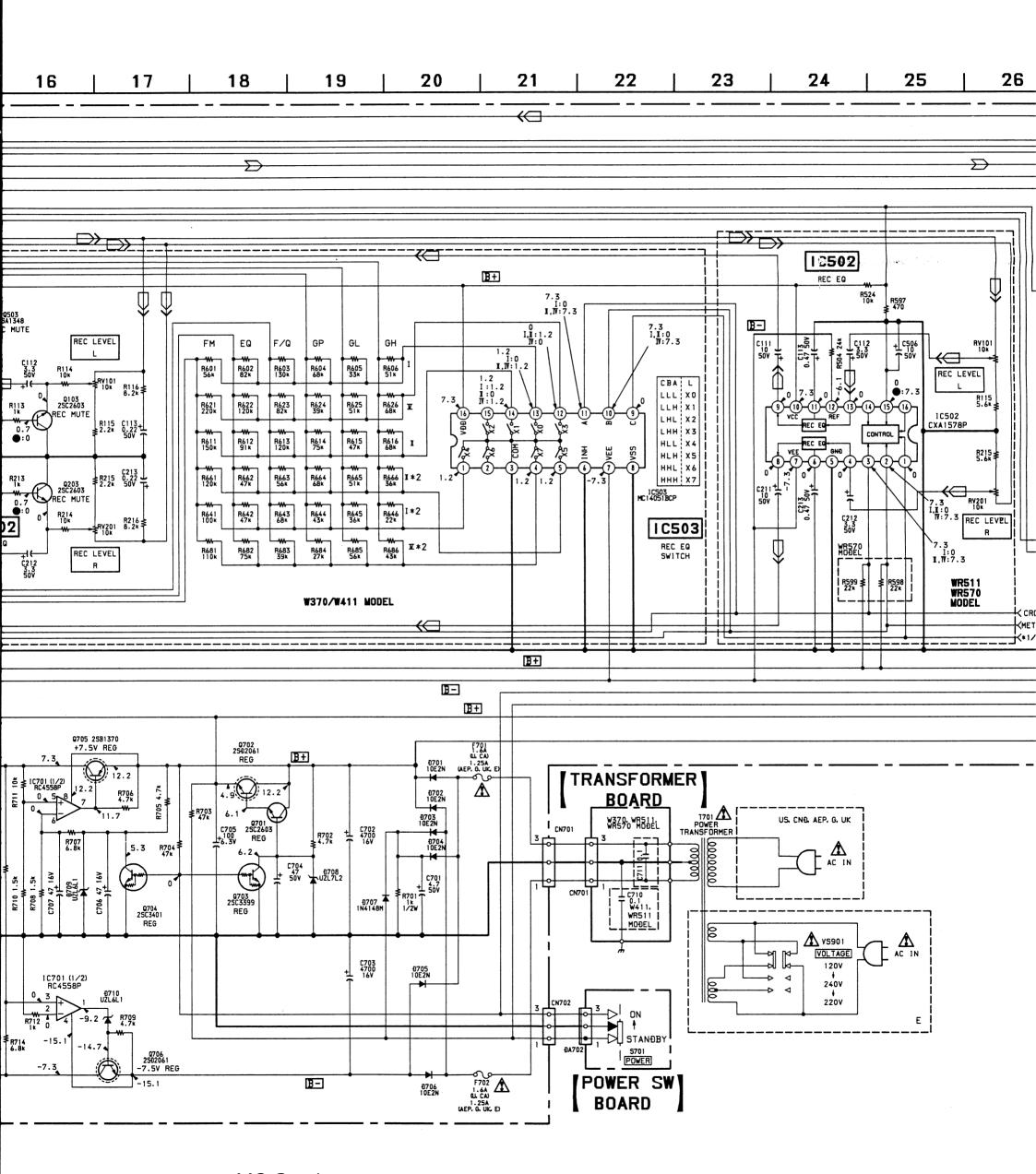
Voltages are taken with a VOM (Input Impedance $10M\,\Omega$) Voltage variations may be noted due to normal production tolerances.

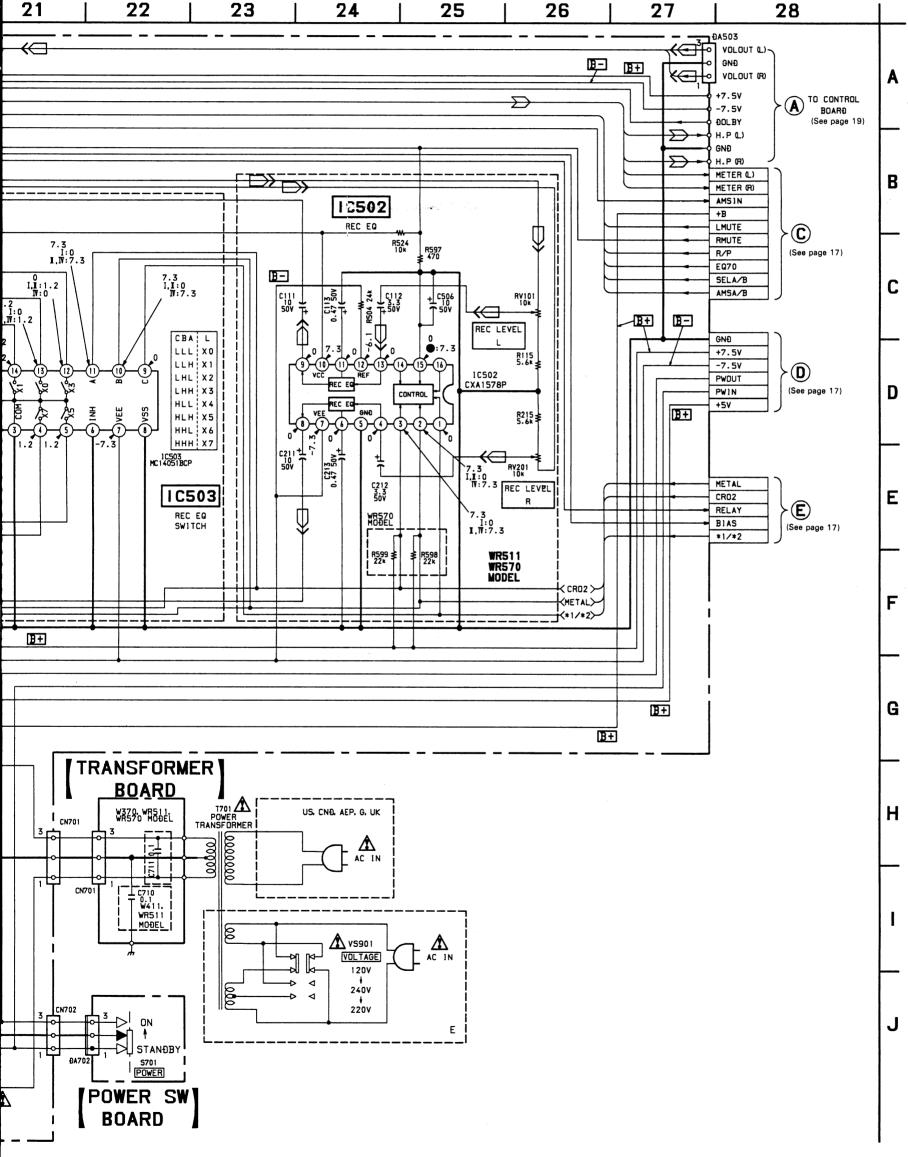
Signal path.

∴ PB (DECK A)
∴ PB (DECK B)
∴ REC (DECK B)
CND : Canadian model

W370 :TC-W370
 W411 :TC-W411
 WR511:TC-WR511
 WR570:TC-WR570







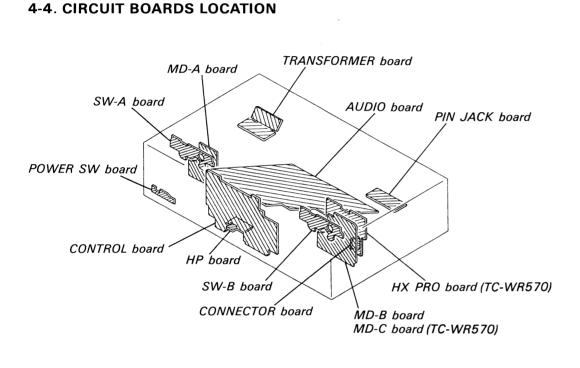
MC-Service

Note:

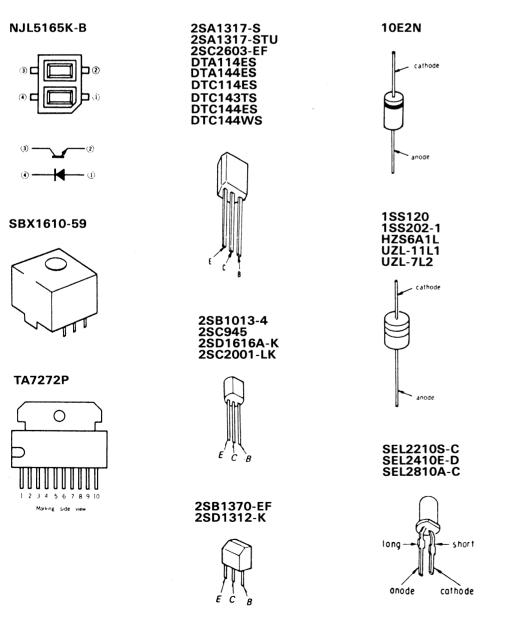
- All capac 50WV or

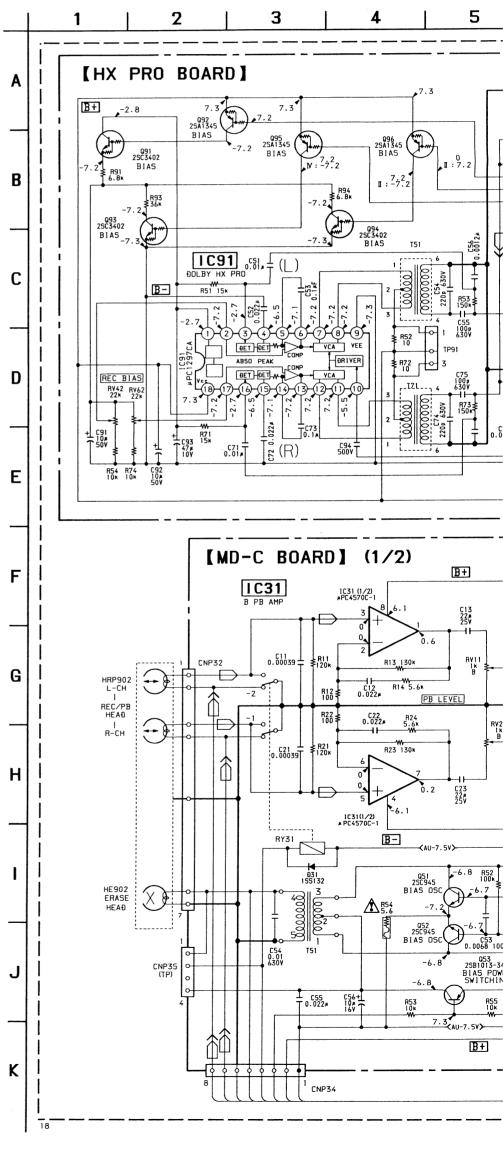
Note: The compo fied by ma ted line w are critical Replace or number spe

4-6. SCHEMATIC DIAGRAM - MD Section -



4-5. SEMICONDUCTOR LEAD LAYOUTS





All capacitors are in μF unless otherwise noted. pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytics and tantalums.

All resistors are in Ω and $1/4\,$ W or less unless otherwise specified.

% : indicates tolerance.

: fusible resistor.

ote:

ne components identind by mark \(\frac{\hat{\chi}}{\text{or dot-}} \)

d line with mark \(\frac{\chi}{\text{critical for safety.}} \)

eplace only with part

mber specified.

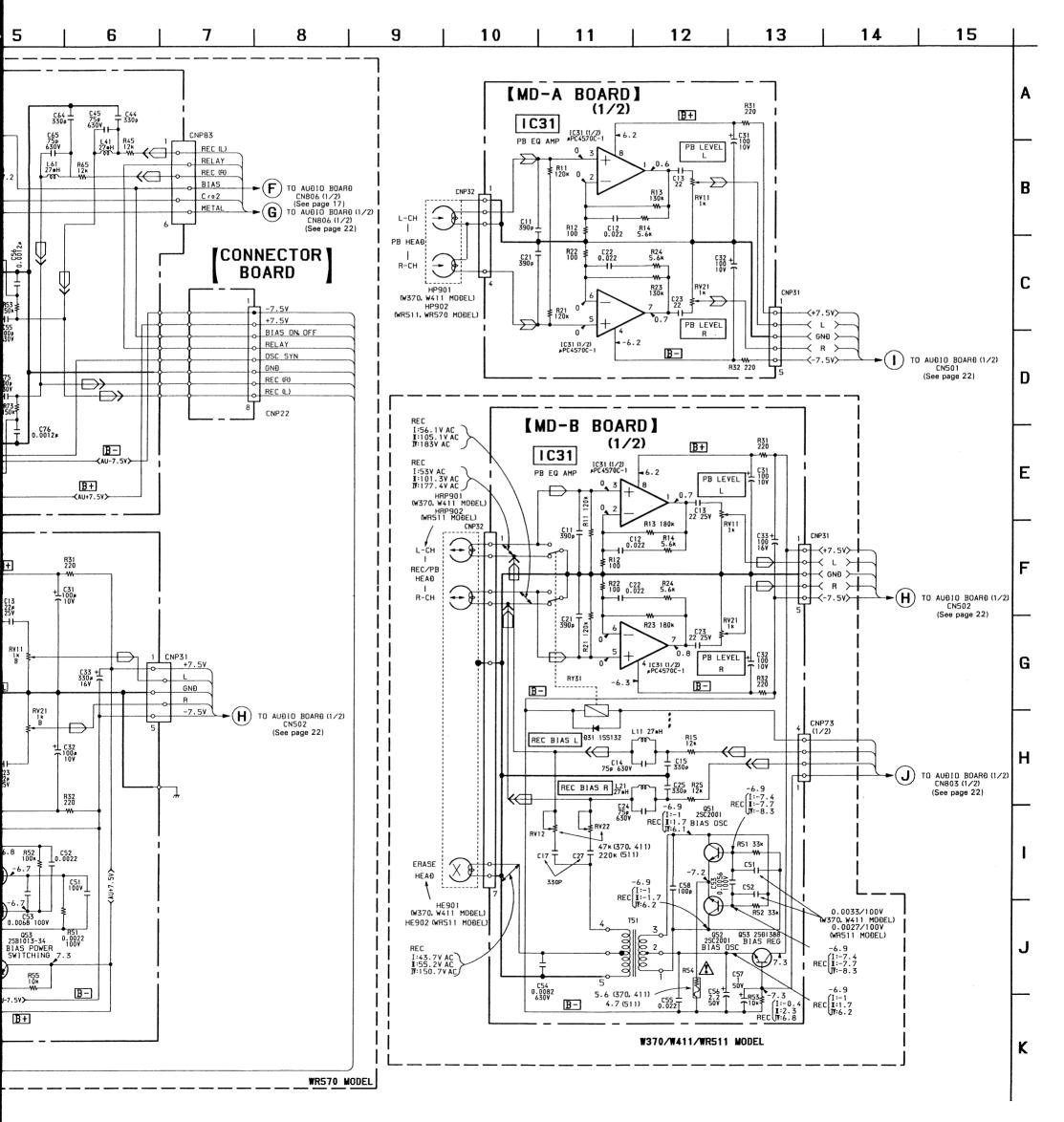
Note: Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une

Ne les remplacer que par une pièce portant le numéro spécifié.

- adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal no mark: STOP
- Voltages are taken with a VOM (Input Impedance 10M Ω)
 Voltage variations may be noted due to normal production tolerances.
- Signal path.

REC (DECK B)

W370 :TC-W370
 W411 :TC-W411
 WR511:TC-WR511
 WR570:TC-WR570



SECTION 5 EXPLODED VIEWS

NOTE:

- -XX, -X mean standardized parts, so they may have some differences from
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

5-1. CHASSIS SECTION

 Color Indication of Appearance Parts Example:

KNOB, BALANCE(WHITE)...(RED)

Part's Color Cabinet's Color

- Hardware (#mark) list is given in the last of this parts list.
- G: Germany model

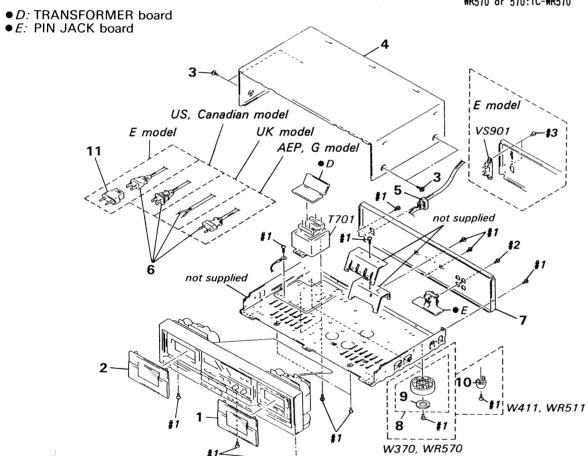
The components identified by mark A or dotted line with mark A are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une

pièce portant le numéro spécifié.

W370 or 370 :TC-W370 W411 or 411 :TC-W411 WR511 or 511:TC-WR511 WR570 or 570:TC-WR570



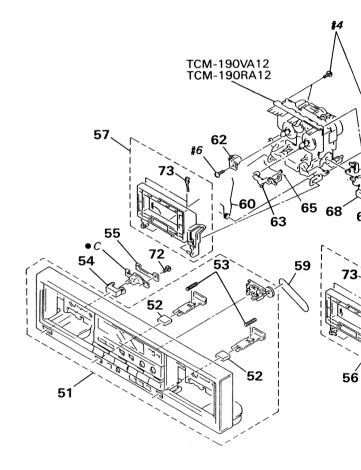
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1		LID (B) ASSY, CASSETTE (370, 41 LID (B) ASSY, CASSETTE (511, 57	· .	8 8		FOOT ASSY (370, 570:US, Canadian FOOT ASSY (AEP, G, UK, E))
2 2		LID (A) ASSY. CASSETTE (511.57 LID (A) ASSY. CASSETTE (370.41		9 10 11 A	4-930-848-01	CUSHION (370, 570) FOOT (411, 511) ADAPTER, CONVERSION 2P (E)	
3	3-332-578-61			T701 <u></u> ♠	1-450-465-11	TRANSFORMER, POWER (AEP. G. UK. 37 TRANSFORMER, POWER (570:E)	10:E)
		BUSHING (S) (4516), CORD (US. Can BUSHING (2104), CORD (AEP. G, UK				TRANSFORMER, POWER (US, Canadia SWITCH, VOLTAGE CHANGE (E)	n)
		CORD. POWER (US. Canadian) CORD. POWER, EULO PLUG (AEP. G)					
6 ₫	1-556-035-00	CORD, POWER (UK) CORD, POWER (E)					
		PANEL, BACK (570:US, Canadian) PANEL, BACK (570:AEP, G)					
7 x	3-365-373-11 3-365-373-41	PANEL. BACK (570:UK) PANEL. BACK (570:E)					
7 1	3-365-374-01	PANEL. BACK (511) PANEL. BACK (370:US, Canadian)					
7 1	3-365-374-21 3-365-374-31	PANEL. BACK (370:UK) PANEL. BACK (370:G) PANEL. BACK (370:AEP)				MC-Service	
		PANEL. BACK (411) PANEL. BACK (370:E)					

5-2. FRONT PANEL SECTION

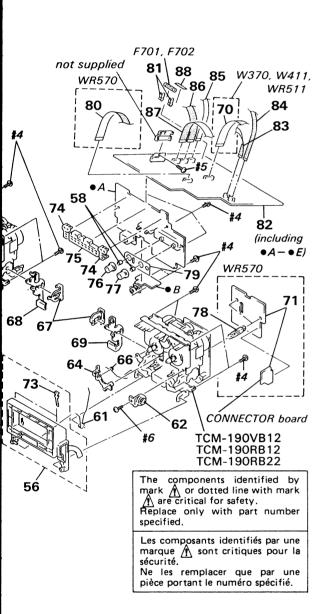
● A: CONTROL board

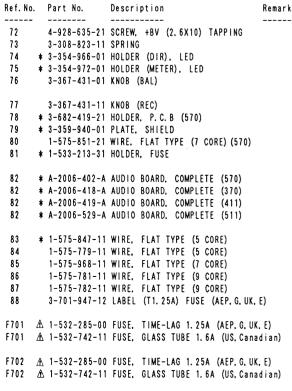
● B: HP board● C: POWER SW board

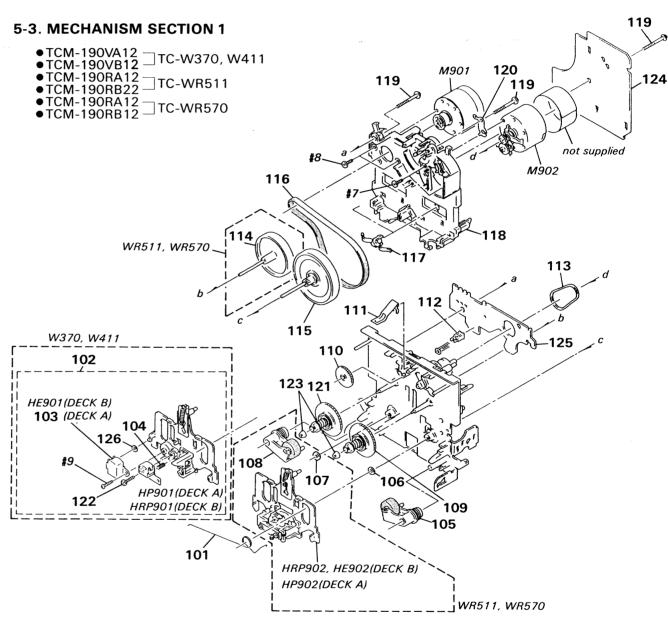
● E: See page 30



Ref. No.	Part No.	Description Remark	Ref. N
51	X-3362-987-1	PANEL ASSY, FRONT (570:US, Canadian)	72
51		PANEL ASSY. FRONT (370:US, Canadian)	73
51		PANEL ASSY. FRONT (411)	74
		PANEL ASSY, FRONT (370:AEP. G. UK. E)	75
		PANEL ASSY, FRONT (511)	76
		PANEL ASSY, FRONT (570:AEP. G. UK. E)	'
		(2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	77
52	3-359-907-11	BUTTON (EJECT)	78
		SPRING, COMPRESSION	79
54	3-354-932-01	BUTTON (POWER)	80
	* 3-359-910-01	REINFORCEMENT	81
56	X-3340-194-1	HOLDER (L) ASSY, CASSETTE	
			82
	X-3340-195-1	• •	82
58	3-356-957-01		82
59	3-305-524-00		82
		SPRING (LOADING R), TORSION	
61	3-354-959-01	SPRING (LOADING L), TORSION	83
			84
	3-354-963-01		85
		LEVER (EJ SAFTY LEVER R)	86
		LEVER (EJ SAFTY LEVER L)	87
		SPRING (EJ SAFTY SPRING R)	88
66	3-354-961-01	SPRING (EJ SAFTY SPRING L)	
67	2 254 257 24	IOLNT (LOOK LEVED)	F701
		JOINT (LOCK LEVER)	F701
	* 3-354-954-01 * 3-354-953-01		F700
70			F702
		WIRE, FLAT TYPE (13 CORE) (370, 411, 511) HX PRO BOARD, COMPLETE (570)	F702
			1

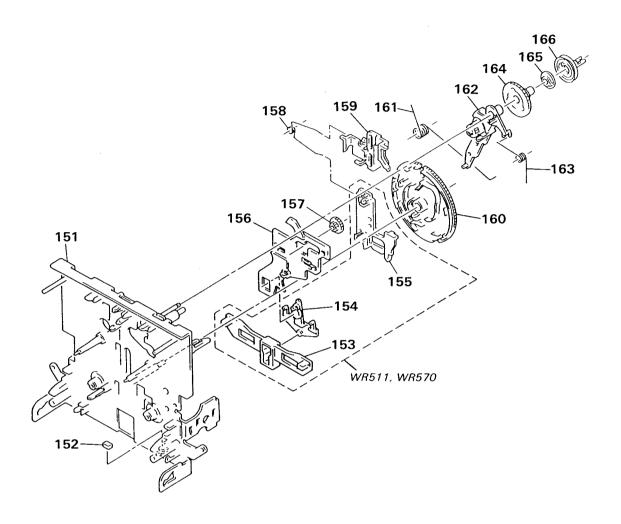






ef. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
01		SPRING, TORSION					
				120	3-359-450-01	PLATE, GROUND	
02	A-2003-475-A	BASE (ONE) ASSY, HEAD (370, 411	DECK A)	121	X-3362-078-1	TABLE ASSY (B). REEL	
02	A-2003-476-A	BASE (ONE) ASSY. HEAD (370, 411	DECK B)	122	3-359-446-01	SCREW (AZIMUTH ADJSTMENT) (370	. 411)
				123	3-362-308-01	CAP (REEL)	
03	3-319-716-01	GUID, TAPE (370, 411 DECK A)		l			
0 4	3-343-484-01	SPRING, COMPRESSION (370, 411)		124 *	1-634-840-11	MD-A BOARD (DECK A)	
05	X-3359-408-1	LEVER (PINCH LEVER FWD) ASSY		124 🛪	1-634-842-11	MD-C BOARD (570 DECK A)	
06	3-356-713-01	WASHER		124 *	1-634-843-11	MD-B BOARD (370, 411, 511 DECK	B)
07	3-356-714-01	WASHER (511, 570)					
				125 🛊	1-634-841-11	SW-A BOARD	
8 0	X-3359-409-1	LEVER (PINCH LEVER REV) ASSY (5	11, 570)	125 🛊	1-634-841-11	SW-B BOARD	
09	X-3359-404-1	TABLE ASSY, REEL					
10	3-359-424-01	GEAR (REV GEAR)		126	3-359-364-01	WASHER (TAPE GUIDE) (370, 411 D	ECK A)
11	3-359-430-01	SPRING (CASSETTE RETAINER). LEA	F	HE901	1-543-535-11	HEAD, MAGNETIC (ERASE) (370, 41	1 DECK E
12	3-343-419-01	HOLDER (S SENSER A)		HP901	1-543-536-11	HEAD, MAGNETIC (PLAYBACK)	
						(370, 411 DECK	A)
13	3-359-466-01	BELT (FR). SQUARE		HP902	A-2003-418-A	BASE ASSY, HEAD (PLAYBACK)	
14	X-3359-410-1	FLYWHEEL (REV) ASSY (511.570)				(511, 570 DECK	A)
15	X-3359-406-1	FLYWHEEL (FWD) COMPLETE ASSY					
				HRP901	1-543-537-11	HEAD, MAGNETIC (REC/PB)	
16	3-359-417-01	BELT (FLAT), CAPSTAN (511, 570)		ł		(370, 411 DECK	B)
16	3-359-467-01	BELT (1 WAY FLAT BELT) (370, 411)	HRP902	A-2003-477-A	BASE ASSY, HEAD (REC/PB/ERASE)
				HE902		(511, 570 DECK	B)
17	3-575-321-00	RETAINER, THRUST, CAPSTAN					
18	* 3-359-436-01	BASE (THRUST RETAINER), FITTIN	IG	M901	X-3359-417-1	MOTOR (CAPSTAN) ASSY	
19	3-359-414-01	SCREW (+PTPWH 2X23)		M902	A-2003-474-A	MOTOR (REEL) ASSY	

5-4. MECHANISM SECTION 2



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
			1				
151	X-3359-415-1	CHASSIS ASSY, MECHANICAL	(511, 570)	158	3-359-454-01	SPRING, TORSION	
151	X-3359-416-1	CHASSIS ASSY, MECHANICAL	(370, 411)	159	3-359-429-01	SLIDER (BRAKE PLATE)	
				160	3-359-420-01	GEAR (CAM GEAR)	
152	3-359-469-01	SPACER		161	3-359-456-01	SPRING (TRIGGER SPRING), T	ORSION
153	* 3-359-425-01	SLIDER (REVERSE SLIDER) (5	11, 570)				
154	3-359-426-01	LEVER (REVERSE LEVER) (511	, 570)	162	X-3359-405-1	LEVER (FR ARM) ASSY	
				163	3-359-453-01	SPRING (FR ARM), TORSION	
155	* 3-359-427-01	SLIDER (LEVERSE SLIDER) (5	11, 570)	164	3-359-419-01	GEAR (FR GEAR)	
156	* 3-359-415-01	SLIDER (TRIGGER SLIDER)	-	165	3-359-421-01	CLUTCH (REEL DISK)	
157		GEAR (TRIGGER)		166		PULLEY (FR PULLEY)	

SECTION 6 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- RESISTORS

All resistors are in ohms METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F : nonflammable

• SEMICONDUCTORS

In each case, $\mathbf{u}:\mu$, for example: $\mathbf{u}A\cdots:\mu A\cdots$, $\mathbf{u}PA\cdots:\mu PA\cdots$, $\mathbf{u}PB\cdots:\mu PB\cdots$, $\mathbf{u}PC\cdots:\mu PC\cdots$, $\mathbf{u}PD\cdots:\mu PD\cdots$

CAPACITORS

 $uF: \mu F$

- COILS uH: μH
- G: Germany model

370 :TC-W370 411 :TC-W411 R511:TC-WR511 R570:TC-WR570 The components identified by mark \(\frac{\hat{\chi}}{\text{ or dotted line with mark }} \) are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifé.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark 	Ref. No.	Part No.	Description			Remark
*	A-2006-402-A	AUDIO BOARD,	COMPLETE ((570)		C205	1-130-475-00		0. 0022uF	5%	50V
*	A-2006-418-A	AUDIO BOARD.	COMPLETE ((370)		C206	1-130-475-00	MYLAR	0. 0022uF	5%	50 V
*	A-2006-419-A	AUDIO BOARD.	COMPLETE ((411)		C207	1-136-174-00	FILM	0. 56uF	5%	50 V
*	A-2006-529-A	AUDIO BOARD,	COMPLETE ((511)		C208	1-136-171-00	FILM	0.33uF	5%	50 V
		*********	******	****		1					
						C209	1-126-059-11		10 u F	20%	50 V
*	1-533-213-31	HOLDER. FUSE				C210	1-124-994-11	ELECT	100uF	20%	10 V
*	3-354-966-01	HOLDER (DIR).	LED			C211	1-126-059-11	ELECT	10 u F	20%	50 V
*	3-354-972-01	HOLDER (METER), LED			C212	1-126-162-11		3. 3uF	20%	50V
*	3-359-940-01	PLATE, SHIELD)								
	7-682-547-04	SCREW +BVTT 3	X6 (S)			C213	1-124-464-11	ELECT	0. 22uF	20%	50V (370, 411)
						C213	1-126-300-11				50V (511, 570)
		< CAPACITOR >	,							• • • •	(,,
						C214	1-126-162-11	ELECT	3. 3 u F	20%	50V
C101	1-126-301-11	ELECT	1 u f	20%	50V	C502	1-124-997-11		470uF		10V
C102	1-136-157-00		0. 022uF	5%	50V	C503	1-126-301-11	ELECT	1uF		50 V
C103		CERAMIC	0.001uF	10%		C504	1-161-494-00	CERAMIC	0. 022uF		25V
C104		ELECT	10uF	20%		C505		ELECT	2. 2uF	20%	50V
									27 2 31		•••
C105	1-130-475-00	MYLAR	0. 0022uF	5%	50V	C506	1-126-059-11	ELECT	10uF 2	0% 5	OV (511, 570)
C106	1-130-475-00	MYLAR	0.0022uF	5%	50V	C701	1-126-163-11	ELECT	4. 7uF	20%	50 V
C107	1-136-174-00	FILM	0. 56uF	5%	50V	C702	1-126-937-11	ELECT	4700uF	20%	16V
C108	1-136-171-00	FILM	0.33uF	5%	50V	C703	1-126-937-11	ELECT	4700uF	20%	16V
						C704	1-124-910-11	ELECT	47uF	20%	50V
C109	1-126-059-11	ELECT	10 u F	20%	50 V						
C110	1-124-994-11	ELECT	100uF	20%	10 V	C705	1-124-443-00	ELECT	100uF	20%	10V
C111	1-126-059-11	ELECT	10uF	20%	50V	C706	1-126-022-11	ELECT	47uF	20%	16V
C112	1-126-162-11		3. 3uF	20%	50V	C707	1-126-022-11	ELECT	47uF	20%	16V
						C708	1-124-473-11	ELECT	1000uF		10V
C113	1-124-464-11	ELECT	0. 22uF 20	% 50	V (370, 411)	C709	1-124-473-11	ELECT	1000uF		10V
C113	1-126-300-11	ELECT	0.47uF 20	% 50	V (511, 570)						
						C710	1-164-159-11	CERAMIC	0. 1uF	50 V	(411, 511)
C114	1-126-162-11	ELECT	3. 3 u F	20%	50V	C711	1-164-159-11		0. 1uF	50V	(,
C201	1-126-301-11		1uF	20%							511, 570)
C202	1-136-157-00	FILM	0. 022uF	5%	50V	C801	1-124-443-00	ELECT	100uF	,	10V
C203	1-162-294-31		0.001uF	10%	50V		1-126-059-11		10uF	20%	
C204	1-126-059-11		10uF	20%			1-126-301-11		1uF		50 V

	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C804	1-136-165-00	FILM 0. 1uF 5%	50V	D405		LED SEL2210S-C	
C805	1-136-165-00		50V	D406		LED SEL2210S-C	
C807	1-126-300-11		50V	D407	8-719-301-38	LED SEL2210S-C	
	1-161-494-00	CERAMIC 0. 022uF	25V	D501	8-719-912-20	DIODE 188120	
C901	1-161-494-00		25V	D502	8-719-200-77	DIODE 10E2N	
		< CONNECTOR >		D503	8-719-001-33	DIODE UZL-11L1	
				D701	8-719-200-77	DIODE 10E2N	
CN501 *	1-568-824-11	SOCKET, CONNECTOR 5P		D702	8-719-200-77	DIODE 10E2N	
		SOCKET, CONNECTOR 5P		D703	8-719-200-77	DIODE 10E2N	
CN504 *	1-564-705-11	PIN. CONNECTOR (SMALL TYPE)	3 P	D704	8-719-200-77	DIODE 10E2N	
CN701 *	1-564-506-11	PLUG, CONNECTOR 3P		D705	8-719-200-77	DIODE 10E2N	
		PIN. CONNECTOR 3P		D706	8-719-200-77	DIODE 10E2N	
		SOCKET. CONNECTOR 9P		D707	8-719-912-20	D10DE 188120	
		SOCKET, CONNECTOR 9P		D708	8-719-000-78	DIODE HZS6A1L	
				D709	8-719-933-33	DIODE HZS6A1L	
CN803 *	: 1-568-828-11 : 1-568-832-11	SOCKET, CONNECTOR 9P (570) SOCKET, CONNECTOR 13P (370, 4	111, 511)	D710	8-719-933-33	DIODE HZS6A1L	
	1 000 002 11			D801	8-719-912-20	DIODE 188120	
CN804 #	1-568-826-11	SOCKET, CONNECTOR 7P		D802	8-719-912-20	DIODE 188120	
		PLUG, CONNECTOR 2P		D901	8-719-301-38	LED SEL2210S-C(B REC)	
		SOCKET, CONNECTOR 7P (570)		D902	8-719-301-52	LED SEL2810A-C(B PAUSE)	
		< DIODE >		D903	8-719-301-44	LED SEL2410E-D(B PLAY)	
				D904		LED SEL2810A-C (B FWD)	
D101	8-719-912-20	DIODE 188120		D905	8-719-301-52	LED SEL2810A-C (B REV)	
D102	8-719-912-20	DIODE 188120		D906	8-719-301-38	LED SEL2210S-C (DUB H)	
D201		DIODE 188120		D907	8-719-301-38	LED SEL2210S-C (DUB N)	
D202	8-719-912-20	DIODE 188120					
				D908		LED SEL2410E-D (A PLAY)	
D301		LED SEL2210S-C (411, 511)		D909		LED SEL2810A-C (511, 570) (A FWD)	
D301	8-719-301-44	LED SEL2410E-D (370, 570)		D910	8-/19-301-52	LED SEL2810A-C (511. 570) (A REV))
D302	8-719-301-38	LED SEL2210S-C (411, 511)	1			< 10 >	
D302	8-719-301-44	LED SEL2410E-D (370, 570)					
2000	0 740 004 00	1 CD 0 C1 0 0 1 0 0 0 0 0 0 1 1 1 1 1 1 1 1		10501	8-752-035-94	IC CXA1331S	
D303		LED SEL2210S-C (411, 511)		10502	9_752_029_02	IC CXA1198AP (370, 411)	
D303	8-119-301-44	LED SEL2410E-D (370, 570)		10502		IC CXA1578P (511, 570)	
D304	8-719-301-38	LED SEL2210S-C (411, 511)		10002	0 102 000 01	(3/1, 0/3)	
D304	8-719-301-44	LED SEL2410E-D (370, 570)		10503	8-759-208-06	IC TC4051BPHB (370, 411)	
				1C504		IC uPD4053BC	
D305	8-719-301-38	LED SEL2210S-C		10505			
D306		LED SEL2210S-C		1C506	8-759-945-58		
D307	8-719-301-38	LED SEL2210S-C		10507	8-759-634-51	IC M5218AP	
D401		LED SEL2210S-C (411.511)		10701	8-759-945-58		
D401	8-719-301-44	LED SEL2410E-D (370,570)		IC801		1C M50964-229SP	
			İ	10802	8-759-207-05		
D402		LED SEL2210S-C (411, 511)		IC901	8-741-100-48	IC SBX1610-59	
D402	8-719-301-44	LED SEL2410E-D (370.570)				< JACK >	
D403	8-719-301-38	LED SEL2210S-C (411, 511)				\ JAUR /	
D403		LED SEL2410E-D (370, 570)	-	J501	1-565-258-11	JACK, PIN 4P (LINE IN/OUT)	
	2 ••.		ļ	J502		JACK (PHONES)	
D404	8-719-301-38	LED SEL2210S-C (411, 511)		-		• • • • • •	
D404		LED SEL2410E-D (370, 570)					
		·	1				

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description				Remark
		< FILTER >					< RESISTOR >				
LPF101	1-236-087-11	FILTER, LOV	W PASS		R101	1-249-417-11	CARBON	1 K		5%	1/4W
	1-236-087-11				R102	1-249-433-11		22K			1/4W
	. 200 001 17				R103	1-249-430-11		12K			1/4W
		< TRANSISTO	OR >		R104	1-249-421-11		2. 2K			1/4W
					R105	1-249-421-11		2. 2K		5%	1/4W
Q101	8-729-620-05	TRANSISTOR	2SC2603-EF				***************************************			• / •	.,
0102	8-729-900-74				R106	1-249-421-11	CARBON	2. 2K		5%	1/4W
0103			2SC2603-EF (370,	411)	R107	1-247-887-00		220K			1/4W
Q201	8-729-620-05		•	,	R108	1-249-423-11		3. 3K			1/4W
0202	8-729-900-74				R109	1-249-423-11		3. 3 K		5%	1/4W
					R110	1-249-428-11		8. 2 K		5%	1/4W
Q203	8-729-620-05	TRANSISTOR	2SC2603-EF (370,	411)		. 2.00 /20 //	57.11.B G II	V. 1.		0,4	17 411
Q501	8-729-900-61		•	,	R111	1-247-864-11	CARBON	24K		5%	1/4W
0502	8-729-900-61				R112	1-249-414-11		560		5%	•
Q503			DTA114ES (370, 41	11)	R113	1-249-417-11		1 K			V (370, 411)
Q505	8-729-821-04			,	R114	1-249-429-11		10K			V (370, 411)
4000	0 725 021 04	111/11010101	20/10/11 010		1,117	1 243 423 11	OANDON	101	3/1	17 41	1 (310, 411)
Q506	8-729-900-61	TRANSISTOR	DTA114FS		R115	1-249-421-11	CARRON	2 28	5%	1 / 4	V (370, 411)
Q507			DTA114ES (370, 41	11 511)	R115	1-249-426-11		5. S.K	5%	1/4/	Y (511, 570)
Q508			2SA1317-STU (370			1 243 420 11	ONIDOR	J. UK	J/1	17 41	1 (311, 370)
Q509			DTA114ES (370, 41		R116	1-249-428-11	CADRON	0 24	54/	1 / 40	V (370, 411)
Q510			2SA1317-STU (370		"''	1 243 420 11	CARDON	0. Z N	376	1/ 47	1 (370, 411)
4010	0 723 021 04	INANOTOTOR	2001011 010 (010	,, 411, 011,	R117	1-249-431-11	CARRON	15K	54/	1 / 41/	V (370, 411)
0511	8-720-821-04	ROTZIZNART	2SA1317-STU (370) A11 511)	R117	1-249-429-11		10K			Y (510, 411)
Q701	8-729-620-05			, 411, 011,	NIII	1-243-423-11	CANDON	101	3/1	17 47	(311, 370)
0702	8-729-111-55				R118	1-249-429-11	CADDON	10K		Ce/	1/4W
Q703	8-729-900-89				R119	1-249-435-11		33K			1/4W
0704	8-729-900-85				R120	1-247-870-11		33 K 43 K			1/4W
. 4104	0-123-300-03	INANGISION	01014480		R121	1-249-408-11		180			1/4W
0705	8-729-924-90	TRANSISTOR	25R1370-FF		R122	1-249-421-11		2. 2K			1/4W
Q706	8-729-111-55				1,122	1-243-421-11	CANDON	2. ZN		J/II	1/411
0801	8-729-900-80				R123	1-249-429-11	CADDON	10 K		5%	1/4W
0802	8-729-821-04				R124	1-249-428-11		8. 2K			1/4W
Q803	8-729-900-61				R125	1-249-430-11		12K			1/4W
4000	0 123 300 01	INANGIOTON	DINITIALO		R126	1-249-409-11		220			1/4 W
Q804	8-729-821-04	TRANSISTOR	2541317-STH		R127	1-249-417-11		1 K		5%	1/4W
0805	8-729-620-05				18121	1 243 417 11	CARDON	I K		3/0	1/411
0806	8-729-620-05				R201	1-249-417-11	CADDON	1 K		5%	1/4W
Q807	8-729-620-05				R202	1-249-433-11		22K			1/4W
0808	8-729-620-05				R202	1-249-430-11		12 K			1/4W
4000	0 123 020 03	INAMOTOTOR	2002000 21		R204	1-249-421-11		2. 2K			1/4W
Q809	8-729-620-05	TRANSISTOR	25C26D3-FF		R205	1-249-421-11					
Q810	8-729-620-05				1 1200	1-243-421-11	CANDON	2. 2K		5%	1/4W
Q811	8-729-620-05				R206	1-040-401-11	CARRON	0 04		E#/	1 / 414
Q812	8-729-620-05				R207	1-249-421-11 1-247-887-00		2. 2K			1/4W
Q813	8-729-620-05				R207			220K			1/4W
4010	0-123-020-03	INMISTOR	2302003-[1		1	1-249-423-11		3. 3K			1/4W
Q814	8-729-620-05	TDANCICTOD	2502602_EE		R209	1-249-423-11		3. 3K			1/4W
Q815	8-729-821-04				R210	1-249-428-11	CAKBUN	8. 2 K		5%	1/4W
Q816					D211	1 047 004 44	CARRON	A 412		/	
	8-729-900-61				R211	1-247-864-11		24K			1/4W
Q817	8-729-801-84				R212	1-249-414-11		560			1/4W
Q818	8-729-900-89	TRANSTSTOR	U10144ES		R213	1-249-417-11		1 K			(370, 411)
Q819	0 700 004 00	TD 1 110 1 0 T 2 T	0004040 4		R214	1-249-429-11	CARBON	10 K	5%	1/4W	(370.411)
	x-//4-X01-X4	TRANSISTOR	23B1U13-4		1						
			DT411450		D	4 645 151 1			_		
Q820	8-729-900-61		DTA114ES		R215 R215	1-249-421-11 1-249-426-11				•	(370, 411) (511, 570)

Ref. No.	Part No.	Description		Remark		Part No.	Description				Remark
R216	1-249-428-11		8. 2K 5%		1	1-249-433-11	CARBON	22K		5%	1/4W (570
					R599	1-249-433-11	CARBON	22 K		5%	1/4W (570
R217	1-249-429-11	CARBON	10K 5%	1/4W (511, 570) R601	1-249-438-11	CARBON	56K	5%	1/4%	(370.41
R217	1-249-431-11	CARBON	15K 5%	1/4W (370, 411) R602	1-249-440-11		82K	5%		(370, 41
				., ,	R603	1-247-882-11		130K	5%		(370, 411
R218	1-249-429-11	CARBON	10K	5% 1/4W		, 211 000 11	***************************************		•,•	.,	(0.0,
R219	1-249-435-11		33K	5% 1/4W	R604	1-249-439-11	CARRON	68K	5%	1/4W	(370, 411
R220	1-247-870-11		43K	5% 1/4W	R605	1-249-435-11		33K	5%		(370, 411
R221	1-249-408-11		180	5% 1/4W	R606	1-247-872-11		51K	5%		(370, 411
R222	1-249-421-11		2. 2K	5% 1/4W	R611	1-247-883-00		150K	5%		(370, 41)
11222	1 243 421 11	OANDON	2. ZN	3/6 1/4/1	R612	1-247-878-00		91K			
R223	1-249-429-11	CADDON	10K	5% 1/4W	NO 12	1-241-010-00	CARBUN	911	5%	1/4m	(370, 411
				*.	0010	1 047 001 00	040001	4001	F0/		. /^70 114
R224	1-249-428-11		8. 2K	5% 1/4W	R613	1-247-881-00		120K	5%		(370, 411
R225	1-249-430-11		12 K	5% 1/4W	R614	1-247-876-11		75K	5%		(370, 411
R226	1-249-409-11		220	5% 1/4W	R615	1-249-437-11		47K	5%		(370, 411
R227	1-249-417-11	CARBON	1 K	5% 1/4W	R616	1-249-439-11	CARBON	68K	5%	1/4W	(370, 411
R501	1-249-417-11	CARBON	1 K	5% 1/4W	R621	1-247-887-00	CARBON	220K	5%	1/4W	(370, 411
R502	1-215-455-00	METAL	27K 1%	1/6W (511, 570) R622	1-247-881-00	CARBON	120K	5%	1/4W	(370, 411
R502	1-249-434-11	CARBON		1/4W (370, 411	. I	1-249-440-11		82K	5%		(370, 411
		••	•	(4.4,	R624	1-249-436-11		39K	5%		(370, 411
R503	1-249-429-11	CARRON	10K	5% 1/4W	R625	1-247-872-11		51K	5%		(370, 411
R504	1-247-864-11		2 4 K	5% 1/4W	R626	1-249-439-11		68K	5%		
R506	1-249-441-11		100K	5% 1/4W	1 1020	1-245-435-11	CARBON	001	376	1/411	(370, 411
R507	1-249-417-11		1 K	5% 1/4W	DCA1	1 240 441 11	0.50000	1004	CA/	4 / 414	/070 211
					R641	1-249-441-11		100K	5%		(370, 411
R508	1-249-441-11	CARBUN	100K	5% 1/4W	R6 42	1-249-437-11		47 K	5%		(370, 411
0500	1 040 407 14	0.1.00.011		TAL 4 / 100	R643	1-249-439-11		68K	5%		(370, 411
R509	1-249-427-11		6. 8K	5% 1/4W	R644	1-249-870-11		43K	5%		(370, 411
R510	1-249-413-11		470	5% 1/4W	R645	1-247-868-11	CARBON	36 K	5%	1/4W	(370, 411
R511	1-249-429-11		10 K	5% 1/4W							
R512	1-249-413-11		470	5% 1/4W	R646	1-249-433-11	CARBON	22K	5%	1/4W	(370,411
R513	1-247-870-11	CARBON	43 K	5% 1/4W	R661	1-247-881-00	CARBON	120K	5%	1/4W	(370, 411
					R662	1-249-437-11	CARBON	47K	5%	1/4W	(370, 411
R514	1-249-429-11	CARBON	10K	5% 1/4W	R663	1-249-438-11	CARBON	56K	5%	1/4W	(370,411
R515	1-249-429-11	CARBON	10 K	5% 1/4W	R664	1-249-439-11	CARBON	68K	5%	1/4W	(370,411
R516	1-249-429-11	CARBON	10 K	5% 1/4W							
R517	1-249-433-11	CARBON	22K 5% 1,	/4W (370, 411, 51	1) R665	1-247-872-11	CARBON	51K	5%	1/4W	(370,411
R518	1-249-433-11	CARBON	22K 5% 1,	4W (370, 411, 51	1) R666	1-247-868-11	CARBON	36K	5%	1/4W	(37 0, 411
					R681	1-247-880-11	CARBON	110K	5%		(370, 411
R519	1-249-427-11	CARBON	6.8K 5% 1,	4W (370, 411, 51		1-247-876-11		75K	5%		(370, 411
R520	1-249-433-11	CARBON		4W (370, 411, 51	•	1-249-436-11		39K	5%		(37 0, 411)
			····································	(,	,			•••	074	17 411	(01 0, 411)
R521	1-249-428-11	CARBON		1/4W (511)	R684	1-249-434-11	CARBON	27K	5%	1/4W	(370, 411)
R521	1-249-431-11	CARBON	15K 5%	1/4W (370, 411)	R685	1-249-438-11		56K			(370, 411)
					R686	1-247-870-11		43 K	5%		(370, 411)
R522	1-249-433-11	CARBON	22K 5% 1/	4W (370, 411, 570		1-247-752-11		1 K		1/2W	(010, 411)
			,	(0.0), 0.0	R702	1-249-425-11		4. 7K			1/4W
R523	1-247-856-00	CARRON	11K 5%	1/4W (511, 570)	"""	1 243 420 11	CARBON	4. IK		3 /N	1/48
R523	1-247-858-11			1/4W (370, 411)	R703	1-249-437-11	CADDON	47 V		E6/	t / Au
	1 247 000 11	ONIDON	10K 3/8	17 477 (010, 411)	R704			47K			1/4W
R524	1_2/0_/20_11	CADRON	10 K 50/	1/AW (611 67A)	I	1-249-437-11		47K			1/4W
	1-249-429-11		10K 5%	1/4W (511, 570)	R705	1-249-425-11		4. 7K			1/4W
R525	1-249-442-11		510	5% 1/4W	R706	1-249-425-11		4. 7K			1/4W
R526	1-249-431-11		15K	5% 1/4W	R707	1-249-427-11	CARBON	6.8K	!	5%	1/4W
R527	1-249-405-11		100	5% 1/4W							
R528	1-249-405-11		100	5% 1/4W	R708	1-249-419-11		1. 5K	!	5%	1/4W
R597	1-249-413-11	CARBON	470 5%	1/4W (511, 570)	R709	1-249-425-11		4.7K	,		1/4W
					R710	1-249-419-11	CARBON	1. 5K		5% 1	1/4W
					R711	1-249-429-11		10K			/4W

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	n		Remark
R712	1-249-417-11		1 K	5%	1/4W	R842	1-249-429-11	CARBON	- 10K	5%	1/4W
R713	1-249-427-11		6. 8K	5%	1/4W	R843	1-249-437-11		47K	5%	1/4W
R714	1-249-427-11		6. 8K	5%	1/4W	R844	1-247-866-11		30K	5%	1/4W
R801	1-249-412-11		390 5		(511, 570)	R845	1-249-435-11		33K	5%	1/4W
R802	1-249-412-11				(511, 570)	R846	1-249-435-11				
NOVE	1 243 412 11	CANDON	030 (7/0 1/ 411	(011, 010)	11040	1-249-425-11	CANDON	4. 7K	5%	1/4W
R803	1-249-410-11		270	5%	1/4W	R847	1-247-862-11		20 K	5%	1/4W
R804	1-249-412-11		390	5%	1/4W	R848	1-247-872-11		51K	5%	1/4W
R805	1-249-413-11		470	5%	1/4W	R850	1-247-872-11		51K	5%	1/4W
R806	1-249-429-11		10K	5%	1/4W	R851	1-249-405-11		100	5%	1/4W
R807	1-249-421-11	CARBON	2. 2K	5%	1/4W	R853	1-249-437-11	CARBON	47 K	5%	1/4W
R808	1-249-421-11	CARBON	2. 2K	5%	1/4W	R854	1-247-866-11	CARBON	30K	5%	1/4W
R809	1-247-903-00	CARBON	1M	5%	1/4W	R855	1-249-435-11	CARBON	33K	5%	1/4W
R810	1-249-429-11	CARBON	10K	5%	1/4W	R856	1-249-425-11	CARBON	4. 7K	5%	1/4W
R811	1-249-422-11	CARBON	2.7K	5%	1/4W	R857	1-247-862-11		20 K	5%	1/4W
R812	1-249-422-11		2. 7K	5%	1/4W	R858	1-247-872-11		51K	5%	1/4W
				•			1 247 072 11	OMINDON.	VIK	3/6	17 411
R813	1-249-422-11	CARBON	2.7K	5%	1/4W	R860	1-247-872-11	CARBON	51K	5%	1/4W
R814	1-249-428-11	CARBON	8.2K	5%	1/4W	R861	1-249-405-11	CARBON	100	5%	1/4W
R815	1-247-836-11	CARBON	1.6K	5%	1/4W	R862	1-249-429-11	CARBON	10K	5%	1/4W
R816	1-249-429-11	CARBON	10K	5%	1/4W	R881	1-249-415-11	CARBON	680	5%	1/4W
R817	1-249-429-11	CARBON	10K	5%	1/4W	R882	1-249-429-11	CARBON	10K	5%	1/4W
R818	1-249-425-11	CARRON	4. 7K	5%	1/4W	R901	1-249-407-11	CADDON	150	5%	1/4W
R819	1-249-434-11		27K		1/4W	R902	1-249-409-11		220		1/4W
R820	1-249-429-11		10K		1/4W	R903	1-249-411-11		330	5%	-
R821	1-249-434-11		27K	5%	1/4W	R904	1-249-413-11				1/4W
R822	1-249-429-11		10K		1/4W	R905	1-249-415-11		470 680		1/4W
11022	1 243 423 11	CAROON	100	576	17 471	N303	1-245-415-11	CANDUN	000	5%	1/4W
R823	1-247-895-00	CARBON	470K	5%	1/4W	R906	1-249-417-11	CARBON	1 K	5%	1/4W
R824	1-247-895-00	CARBON	470K	5%	1/4W	R907	1-249-420-11		1. 8K		1/4W
R825	1-249-425-11	CARBON	4.7K		1/4W	R908	1-249-407-11		150		1/4W
R826	1-249-425-11	CARBON	4.7K	5%	1/4W	R909	1-249-409-11		220		1/4W
R827	1-249-409-11	CARBON	220	5%	1/4W	R910	1-249-411-11		330		1/4W
R828	1-249-409-11		220		1/4W	R911	1-249-413-11		470		1/4W
R829	1-249-409-11	CARBON	220	5%	1/4W	R912	1-249-415-11		680	5%	1/4W
						R913	1-249-417-11		1 K	5%	1/4W
R830	1-249-407-11		50 5%		(0, 411, 570)	R914	1-249-426-11	CARBON	5.6K 5%	1/4W	(511, 570)
R830	1-249-409-11	CARBON 2	20 5%	1/4W (5	111)	R915	1-249-430-11	CARBON	12K 5%	1/4W	(511, 570)
R831	1-249-407-11	CARBON 1	50 5%	1/4W (37	0, 411, 570)	R916	1-249-411-11	CARBON	330 5%	1/4W	(370, 570)
R831	1-249-409-11	CARBON 2		1/4W (5			1-249-413-11				(411, 511)
R832	1-249-407-11	CARRON 1	50 5%	1 / AW (97	0, 411, 570)	D017	1_040 411 14	CADDON			
R832	1-249-407-11			1/4W (5		R917 R917	1-249-411-11		330 5%		(370, 570)
11002	1-243-403-11	CARBON 2	20 3/1	1/4# (3	''''	N911	1-249-413-11	CARBON	470 5%	1/4W	(411, 511)
R833	1-249-435-11		33K		1/4W			< VARIABLE	RESISTOR >		
R834	1-249-413-11		470		1/4W						
R835	1-249-413-11		470		1/4W	RV101	1-238-600-11				
R836	1-249-429-11		10K	5%	1/4W	RV201	1-238-600-11	RES, ADJ, C	ARBON 10K		
R837	1-249-410-11	CARBON	270	5%	1/4W	RV501	1-241-058-11	RES, VAR, C	ARBON 50K/50	K (RE	C LEBEL)
R838	1-249-412-11	CARBON	390	5% 1/4W	(511, 570)	RV502	1-241-057-11	RES, VAR, C	ARBON 50K/50	K (BA	LANCE)
R839	1-249-412-11				(511, 570)						
R840	1-249-441-11			5% 1/AW	(511, 570)						
R841	1-249-415-11		680		1/4W						
	, 140 410 II	VARDOR	700	У/I	1/ 411						

AUDIO HX PRO

MD-A

Ref. No.	Part No.	Description			Remark 	Ref. No.		Part No.	Descrip				Remark
		< SWITCH >							< CONNE				
\$701	1-554-118-00	SWITCH, PUSH	(1 KEY) (PC	WER)		CNP22	*	1-565-347-11	SOCKET.	CONNECTOR	(PC	BOARD) 8P
901		SWITCH, SLIDE			1			1-568-826-11				••••••	, ••
3902	1-572-358-11	SWITCH, SLIDE	DIR MODE	(511	. 570)								
S903 S904		SWITCH, TACTI							< 10 >				
						1091		8-759-106-56	IC uPC1	297CA			
3905	1-554-303-21	SWITCH, TACTI	LE (A REV)	(511,	570)								
3906		SWITCH, TACTI							< COIL	>			
\$907		SWITCH, TACTI											
8908		SWITCH, TACTI				L41		1-410-780-11					
3909	1-554-303-21	SWITCH, TACTI	FF (DARRII	IG HIC	iH)	L61		1-410-780-11	INDUCTO	R 271	nH		
S910	1-554-303-21	SWITCH, TACTI	LE (DUBBII	IG NOF	RM)				< TRANS	ISTOR >			
\$911	1-554-303-21	SWITCH, TACTI	LE (B STO	")									
S912		SWITCH, TACTI	-	-		Q91		8-729-900-80	TRANSIS	TOR DTC114	ES		
S913		SWITCH, TACTI				092		8-729-900-65					
\$914	1-554-303-21	SWITCH, TACTI	LE (B REV)	(511,	570)	093		8-729-900-80					
						094		8-729-900-80					
\$915		SWITCH, TACTI				095		8-729-900-65					
\$916		SWITCH, TACTI				Q96		8-729-900-65	TRANSTS	IOR DIA144	: \$		
\$917	1-554-303-21	SWITCH, TACTI	LE (A FF)						< RESIS	TOR >			
		< CERAMIC >											
						R45		1-249-430-11	CARBON	12K		5%	1/4W
(801	1-577-358-21	VIBRATOR, CER	RAMIC (4MH)	2)		R51		1-249-431-11		15K		5%	1/4W
						R52		1-249-393-11		10		5%	1/4W
******	*********	*********	*******	*****	********	R53 R54		1-247-883-00		150) 10K	(5% 5%	1/4W 1/4W
*	A-2006-403-A	HX PRO BOARD.	COMPLETE	(570)					V/			070	17 411
		********	*******	****	:	R65		1-249-430-11	CARBON	12K		5%	1/4W
						R71		1-249-431-11		15K		5%	1/4W
		< CAPACITOR >	•			R72		1-249-393-11		10		5%	1/4W
		0504440	00005	4.00/	5011	R73		1-247-883-00		150k		5%	1/4W
244	1-162-288-31		330PF		50V	R74		1-249-429-11	CARBON	10K		5%	1/4W
045 051	1-136-273-91		75PF 0.01uF	5% 5%	630V 50V	D 0 1		1-249-427-11	CADDON	c 0.0		En/	1 / 450
252	1-136-157-00	-	0. 07ur 0. 022uF	5%	50V	R91 R93		1-247-868-11		6. 8 K 3 6 K		5% 5%	1/4W 1/4W
253	1-136-165-00		0. 022di 0. 1uF	5%	50V	R94		1-249-427-11		50 K 6. 8 K		5% 5%	1/4W 1/4W
,,,,	1 100 100 00	1 1 5		• • • • • • • • • • • • • • • • • • • •		,,,,,		, 240 421 11	CANDON	V. 0h		3/6	17 411
54	1-136-437-11	FILM	220PF	5%	630V				< VARIA	BLE RESISTO	R >		
255	1-136-433-11		100PF	5%	630V								
56	1-130-472-00		0.0012uF			RV42		1-230-722-11					
64	1-162-288-31		330PF	10%	50V	RV62		1-230-722-11	RES, AD	J, CARBON 2	2 K		
65	1-136-273-91	FILM	75PF	5%	630V				/ TDANC	FABUED >			
:71	1-136-153-00	FILM	0. 01uF	5%	50V				CIRANS	FORMER >			
72	1-136-157-00		0. 022uF	5%	50V	T51		1-433-367-11	TRANSFO	RMFR RIAS	0880	11 AT10	אר
73	1-136-165-00		0. 1uF	5%	50V	T71		1-433-367-11					
74	1-136-437-11	FILM	220PF	5%	630V								,
75	1-136-433-11	FILM	100PF	5%	630V	TP91	*	1-564-518-11	PLUG. C	ONNECTOR 3P			
76	1-130-472-00	MVIAR	0. 0012uF	5%	50V	*****	. 4.4	*********			المراجع الماط	د د د د د د د د د	
91	1-130-472-00		10uF		50V 50V	*****	* 7 4	********	******		****	*****	******
92	1-126-059-11		10ur 10uF	20%	50V		¥	1_634_940_11	MD-A DA	ADD (DEAV A	١		
93	1-126-039-11		47uF		107		•	1-634-840-11	*****	•	j		
		LLLVI	7141	£ V/8	107				ተ ተተተተቸ	r r T			

TC-W370/W411/WR511/WR570

MD-A MD-C

Ref. No.	Part No.	Description			Remark 	Ref. No.	Part No.	Description			Remark
		< CAPACITOR >					1-634-842-11	MD-C BOARD (5			
C11	1-110-342-11	MYLAR	390PF	5%	50V						
C12	1-136-157-00	FILM	0. 022uF	5%	50V			< CAPACITOR >			
C13	1-124-282-00	ELECT	22uF	20%	25V						
C21	1-110-342-11	MYLAR	390PF	5%	50V	C11	1-110-342-11	MYLAR	390PF	5%	50V
C22	1-136-157-00	FILM	0. 022uF	5%	50V	C12	1-136-157-00	FILM	0. 022uF	5%	50 V
						C13	1-124-282-00		22uF	20%	25V
C23	1-124-282-00	FLECT	22 u F	20%	25V	C21	1-110-342-11		390PF	5%	50V
C31	1-124-443-00		100uF	20%		C22	1-136-157-00		0. 022uF	5%	50V
C32	1-124-443-00		100uF	20%					V. V.L.	•/•	•••
C71	1-123-875-11		10uF	20%		C23	1-124-282-00	FLECT	22uF	20%	25V
C72	1-123-875-11		10uF	20%		C31	1-124-443-00		100uF	20%	10V
		22201	, • • • •	20,0	1	C32	1-124-443-00		100uF	20%	107
		< CONNECTOR >				C33	1-124-119-00		330uF	20%	16V
		C COMMEDIAN >				C51	1-136-230-00		0. 0022uF		100V
CND31	* 1-568-824-11	SOCKET CONNE	^TAD 50			001	1-100-200-00	f J LIM	0. VVZZUF	376	1007
	* 1-564-706-11			TVDC	40	C 5 2	1-136-230-00	CIII	0.0000	Cė/	1001
	* 1-564-705-11		•				1-130-250-00		0. 0022uF	5%	100V
			-		I	C 5 3			0.0068uF		100V
	* 1-564-706-11		•	HTTE	41	C54	1-136-601-11		0.01uF	5%	630V
CNP/3	* 1-568-826-11	SUCKET, CONNE	CIUR 19			C 5 5	1-161-494-00		0. 022uF		25V
		4 10 5				C56	1-126-157-11	ELECT	10 u F	20%	16V
1031	0 750 111 44	< IC >				C71 C72	1-123-875-11		10uF		50V 50V
1031	8-739-111-44					612	1-123-873-11		10uF	20%	204
		< TRANSISTOR	>					< CONNECTOR >			
Q71	8-729-820-16	TRANSISTOR 2S	A1317-S		ļ	CNP31 4	1-568-824-11	SOCKET, CONNEC	CTOR 5P		
						CNP32 *	1-564-709-11	PIN. CONNECTOR	R (SMALL)	TYPE)	7 P
		< RESISTOR >			·	CNP34 *	1-565-344-11	PIN, CONNECTOR	R (PC BOAF	RD) 8P	•
						CNP71 #	1-564-705-11	PIN. CONNECTOR	R (SMALL 1	TYPE)	3 P
R11	1-247-881-00	CARBON	120K	5%	1/4W						
R12	1-249-405-11	CARBON	100	5%	1/4W	CNP72 *	1-564-706-11	PIN, CONNECTOR	R (SMALL 1	TYPE)	4P
R13	1-247-882-11	CARBON	130K	5%	1/4W			SOCKET, CONNEC			
R14	1-249-426-11	CARBON	5. 6K	5%	1/4W	CNP75 #	1-564-704-11	PIN, CONNECTOR	R (SMALL 1	TYPE)	2 P
R21	1-247-881-00	CARBON	120K	5%	1/4W						
								< DIODE >			
R22	1-249-405-11	CARBON	100	5%	1/4W						
R23	1-247-882-11	CARBON	130K	5%	1/4W	D31	8-719-107-94	DIODE 188202-1	1		
R24	1-249-426-11	CARBON	5. 6 K	5%	1/4W						
R31	1-249-409-11	CARBON	220	5%	1/4W			< 10 >			
R32	1-249-409-11	CARBON	220	5%	1/4W						
						1031	8-759-111-44	IC uPC4570C-1			
R71	1-247-864-11	CARBON	24K	5%	1/4W						
R72	1-249-433-11	CARBON	22K	5%	1/4W			< TRANSISTOR >	>		
R73	1-249-437-11	CARBON	47K	5%	1/4W						
R74	1-249-437-11	CARBON	47K	5%	1/4W	Q51	8-729-194-57	TRANSISTOR 250	945		
						Q52		TRANSISTOR 280			
		< VARIABLE RE	SISTOR >		İ	Q53		TRANSISTOR 2SE			
						Q71		TRANSISTOR 2SA			
RV11	1-238-597-11	RES, ADJ, CAR	BON 1K		Į		**		- · · · •		
RV21		RES, ADJ, CAR			1			< RESISTOR >			
RV71		RES, ADJ, CAR			1			. HEOTOTOR /			
RV72		RES, ADJ, CAR				R11	1-247-881-00	CARBON	120K	5%	1/4W
	*** **		1 • 11			R12	1-249-405-11		100		1/4W
						R13	1-247-882-11		130K		1/4W
					1	R14	1-247-662-11				1/4W
					ı	11.17	1 243 420-11	OANDON	J. UK	370	1/ 411

MD-C

MD-B

Ref. No.	Part No.	Description			emark	Ref. No		Descripti			Remark
R21	1-247-881-00	CARBON	120K 5%			C31	1-124-443-00		100uF	2	0% 10V
R22	1-249-405-11		100 59	1/4W		C32	1-124-443-00	ELECT	100uF	2	0% 10V
R23	1-247-882-11	CARBON	130K 5%	1/4W		C33	1-124-119-00	ELECT	330MF	2	0% 16V
R24	1-249-426-11	CARBON	5. 6K 59	1/4W		i					
R31	1-249-409-11	CARBON	220 59	1/4W		C51	1-130-729-00	FILM	0.0027	5%	100V (511)
						C51	1-136-593-11	FILM	0.0033MF	5%	100V (370, 411
R32	1-249-409-11	CARBON	220 5%	6 1/4W							
R51	1-249-441-11	CARBON	100K 59			C52	1-130-729-00	FILM	0.0027		100V (511)
R52	1-249-441-11		100K 5%			C 5 2	1-136-593-11	FILM	0.0033MF	5%	100V (370, 411
R53	1-249-429-11		10K 59								
R54 &	1-212-851-00	FUSIBLE	5. 6 59	1/4W	F	C53	1-130-339-00	FILM	0.0056MF	5%	100V
255		0.1.00.01	107 50	, 4 / 450		054	1 100 500 11	6 1111			0001/ (514)
R55	1-249-429-11		10K 59	-		C54	1-136-562-11		0.0082		630V (511)
R71	1-247-864-11		24K 59			C54	1-136-601-11	FILM	0.01MF	3%	630V (370, 411
R72 R73	1-249-433-11		22K 59 47K 59			C55	1-161-404-00	CEDAMIC	0. 022M	-	0 EV
R74	1-249-437-11 1-249-437-11		47K 59			C56	1-161-494-00 1-124-925-11		2. 2MF		25V 20% 50V
N / 4	1-243-431-11	CARDON	41K 37	1/48		C57	1-124-791-11		1MF		20% 50V 20% 50V
		< VARIABLE RE	SISTOR >			C58	1-162-282-31		100PF		10% 50V
		. THITTUEL AL				C71	1-123-875-11		10MF		20% 50V
RV11	1-238-597-11	RES, ADJ, CAF	RBON 1K			C72	1-123-875-11		10MF		20% 50V
RV21		RES, ADJ, CAF									2070
RV71		RES. ADJ. CAF						< CONNECT	TOR >		
RV72		RES, ADJ, CAF									
						CNP31	* 1-568-824-11	SOCKET, (CONNECTOR 5P		
		< RELAY >				CNP32	* 1-564-709-11	PIN, CON	NECTOR (SMAL	LTYP	E) 7P
						CNP71	* 1-564-705-11	PIN. CON	NECTOR (SMAL	LTYP	E) 3P
RY31	1-515-726-11	RELAY				1	* 1-564-706-11		•		E) 4P
		< TRANSFORMER	₹ >			CNP73	* 1-568-832-11	SOCKET.	CONNECTOR 13	•	
								< DIODE :	>		
T51	1-433-366-11	TRANSFORMER.	BIAS OSCILLA	ATION		D31	8-719-107-94	DIODE 199	3202-1		
******	******	********	******	******	*****		0 110 101 04	< 10 >	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
į	± 1-634-843-11	PC BOARD, MD-	-R (370 411 !	SII DECK	R)			(16)			
	, , 504 646 11	********			•	1031	8-759-111-44	IC uPC457	'0C-1		
		< CAPACITOR >						< COIL >			
		CALACTION	•					(UUIL)			
C11	1-110-342-11	MYLAR	390PF	5%	50V	L11	1-410-780-11	INDUCTOR	27mH		
C12	1-136-157-00		0. 022uF	5%	50V	L21	1-410-780-11		27mH		
C13	1-124-282-00		22uF	20%	25V						
C14	1-136-273-91	FILM	75PF	5%	630V			< TRANSIS	STOR >		
C15	1-162-288-31	CERAMIC	330PF	10%	50V	1					
						Q51	8-729-142-46				
C17	1-162-209-31		27PF 5%	50V (5		052	8-729-142-46				
C17	1-162-288-31	CERAMIC	330PF 10%	50V (37	0, 411)	053	8-729-111-29				
001		MVC AB	2020	F#/	FA1/	071	8-729-820-16	TRANSISTO	OR 2SA1317-S		
C21	1-110-342-11		390PF	5%	50V			4 0501074	.0.		
C22 C23	1-136-157-00 1-124-282-00		0. 022uF 22 u F	5% 20%	50 V 2 5 V	-		< RESISTO	/n >		
C23	1-124-282-00		75PF	20% 5%	630V	R11	1-247-881-00	CADBON	1008	E0/	1/4W
C25	1-162-288-31		330PF	10%	50V	R12	1-249-405-11		120K 100	5% 5%	1/4W 1/4W
V. V	1 102 200 01	VERNMIN	V V V I I	1 4/4		R13	1-247-882-11		130K	5%	1/4 W
C27	1-162-288-31	CERAMIC	330PF 10%	50V (3	70, 411)	R14	1-249-426-11		5. 6K	5%	1/4W
C27	1-162-209-31		27PF 5%	50V (5		R15	1-249-430-11		12 K	5%	1/4W
						, 	Ness		Na4		
						-	Note: The component	s identi-	Note:	ante	identifiés par
							fied by mark /	or dot-	une marque	s 🔊 s	ont critiques
							ted line with n	nark ///	pour la sécu	rité.	
						İ	are critical for sa				que par une
							Replace only w number specifie		pièce portar fié.	16 16 1	numéro spéci-
	1.10	Service				L					
	11/11	~ /\/\/\/\			<u> </u>						

MD-B SW-A SW-B

Ref. No.	Part No.	Description Remark
R21	1-247-881-00	CARBON 120K 5% 1/4W
R22	1-249-405-11	CARBON 100 5% 1/4W
R23	1-247-882-11	CARBON 130K 5% 1/4W
R24	1-249-426-11	
R25	1-249-430-11	•
	1-249-409-11	•
R32	1-249-409-11	
R51	1-249-435-11	• • • • • • • • • • • • • • • • • • • •
R52	1-249-435-11	
R53	1-249-429-11	CARBON 10K 5% 1/4W
	1-212-849-00	, , ,
R54 A	1-212-851-00	FUSIBLE 5. 6 5% 1/4W F (370, 411)
R71	1-247-864-11	
R72	1-249-433-11	CARBON 22K 5% 1/4W
R73	1-249-437-11	CARBON 22K 5% 1/4W CARBON 47K 5% 1/4W
R74	1-249-437-11	
		< VARIABLE RESISTOR >
RV11	1-238-597-11	RES, ADJ. CARBON 1K
RV12	1-230-498-11	RES. ADJ. CARBON 47K (370, 411)
RV12	1-230-500-11	RES. ADJ. CARBON 220K (511)
RV21	1-238-597-11	RES, ADJ. CARBON 1K
RV22	1-230-498-11	RES, ADJ, CARBON 47K (370, 411)
RV22		RES, ADJ. CARBON 220K (511)
RV71	1-238-600-11	RES. ADJ. CARBON 10K
RV72		RES. ADJ. CARBON 10K
		< RELAY >
RY31	1-515-726-11	RELAY
		< TRANSFORMER >
T51	1-433-337-11	TRANSFORMER, BIAS OSCILLATION (511)
T51		TRANSFORMER, BIAS OSCILLATION (370, 411)
******	******	*************
1	1-634-841-11	SW-A BOARD *******
	3-343-419-01	HOLDER (S SENSER A)
		< CONNECTOR >
`NP 9 1 4	. 1_560_052_11	SOCKET CONNECTOR OF

Ref. No.	Part No.	Description < RESISTOR >	Remark
R84 R85	1-249-417-11 1-249-408-11	• • • • • • • • • • • • • • • • • • • •	5% 1/4W 5% 1/4W
		< SWITCH >	
\$81 \$82 \$86	1-571-281-21	SWITCH, PUSH (1 KEY) (S SWITCH, LEAF (70EQ) SWITCH, LEAF (HALF)	TOP)
******	******	********	******
*	1-634-841-11	SW-B BOARD *******	
	3-343-419-01	HOLDER (S SENSER A)	
		< CONNECTOR >	
CNP81 *	1-568-852-11	SOCKET. CONNECTOR 9P	
		< 10 >	
1081	8-719-710-03	PHOTO INTERRUPTOR NJL5	165K-B
		< RESISTOR >	
R81 R82 R83 R84 R85	1-249-414-11 1-247-818-11 1-247-834-11 1-249-417-11 1-249-408-11	CARBON 300 5% CARBON 1.3K 5% CARBON 1K 5%	1/4W
		< SWITCH >	
\$81 \$82 \$83 \$84 \$85 \$86	1-571-281-21 1-571-281-21 1-571-281-21 1-571-281-21	SWITCH. PUSH (1 KEY) (S SWITCH, LEAF (70EQ) SWITCH, LEAF (METAL) SWITCH, LEAF (REC A) SWITCH, LEAF (REC B) (5 SWITCH, LEAF (HALF)	
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CNP81 * 1-568-852-11 SOCKET, CONNECTOR 9P

< 10 >

IC81 8-719-710-03 PHOTO INTERRUPTOR NJL5165K-B

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description Remark
		MISCELLANEOUS

		(CORD, POWER (E)
		(CORD, POWER (US,Canadian)
		CORD, POWER, EULO PLUG (AEP, G)
		CORD, POWER (UK)
11 🕸		1 ADAPTER, CONVERSION 2P (E)
70	1-575-784-1	1 WIRE, FLAT TYPE (13 CORE) (370, 411, 511)
80	1-575-851-2	1 WIRE, FLAT TYPE (7 CORE)(570)
81 *	1-533-213-3	1 HOLDER, FUSE
83 *	1-575-847-1	1 WIRE, FLAT TYPE (5 CORE) 1 WIRE, FLAT TYPE (5 CORE)
85	1-575-968-1	1 WIRE. FLAT TYPE (7 CORE)
86	1-575-781-1	1 WIRE, FLAT TYPE (9 CORE)
87	1-575-782-1	1 WIRE, FLAT TYPE (9 CORE) D FUSE. TIME-LAG 1.25A (AEP.G.UK.E)
F701 🛕	1-532-285-0	O FUSE. TIME-LAG 1.25A (AEP.G.UK.E)
F701 🗚	1-532-742-1	1 FUSE. GLASS TUBE 1.6A (US.Canadian)
		O FUSE, TIME-LAG 1.25A (AEP.G.UK.E)
F702 🔏	1-532-742-1	1 FUSE, GLASS TUBE 1.6A (US.Canadian)
HE901	1-543-535-1	1 HEAD, MAGNETIC (ERASE) (370,411 DECK B)
HP901	1-543-536-1	1 HEAD, MAGNETIC (PLAYBACK)
		(370. 411 DECK A)
HP902	A-2003-418-	A BASE ASSY, HEAD (PLAYBACK)
		(511, 570 DECK A)
HRP901	1-543-537-1	1 HEAD, MAGNETIC (REC/PB) (370,411 DECK B
HRP902 🗅		4 040F 400V HEAD (DEG(DD(E040F)
HE902	7 A-2003-411-	A BASE ASSY. HEAD (REC/PB/ERASE)
1001	V 0050 443	(511, 570 DECK B)
		1 MOTOR (CAPSTAN) ASSY
	_	A MOTOR (REEL) ASSY
		1 TRANSFORMER, POWER (US, Canadian)
		1 TRANSFORMER, POWER (E)
		1 TRANSFORMER, POWER (AEP, G, UK)
VS901 ∆	2 1-5/0-30/-1	1 SWITCH, VOLTAGE CHANGE (E)
******	********	***************
		ACCEPTANCE OF THE PARTY OF THE
		ACCESSORY & PACKING MATERIAL

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1-558-271-11 CORD. CONNECTION
  1-559-533-11 CORD, CONNECTION
* 3-354-917-01 CUSHION
* 3-366-701-01 INDIVIDUAL CARTON (570)
* 3-366-701-11 INDIVIDUAL CARTON (511)
* 3-366-701-21 INDIVIDUAL CARTON (370)
* 3-366-701-31 INDIVIDUAL CARTON (411)
  3-703-450-01 INSTRUCTION (US)
  3-753-096-11 MANUAL, INSTRUCTION (Canadian, AEP)
 (ENGLISH, FRENCH, SPANISH, PORTUGUESE)
3-753-096-21 MANUAL, INSTRUCTION (US, UK) (ENGLISH)
 3-753-096-41 MANUAL, INSTRUCTION (AEP)
                (GERMAN, DUTCH, SWEDISH, ITALIAN)
 3-753-096-51 MANUAL, INSTRUCTION (G) (GERMAN)
  3-753-096-61 MANUAL, INSTRUCTION (E)
                (ENGLISH, FRENCH, SPANISH, CHINESE)
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Ref. No. Part No. Description Remark ----------

HARDWARE LIST

#	1	7-685-646-79 S	CREW	+BVTP 3X8 TYPE2 N-S
#	2	7-621-849-00 S	CREW	(BV/RING)
#	3	7-685-534-19 S	CREW	+BTP 2.6X8 TYPE2 N-S (E)
#	4	7-621-773-93 S	CREW	(PANEL 2.6 TP2)
#	5	7-682-547-04 S	CREW	+BVTT 3X6 (S)
#	6	7-621-773-95 S	CREW	+BVTT 2.6X6 (S)
#	7	7-627-556-08 S	CREW	+P 2.6X2.8
#	8	7-621-775-00 S	CREW	+B 2.6X3
#	9	7-621-772-58 S	CREW	(+B 2X10) (370, 411)

Note:

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Note:

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spéci-fié.